

**Prentice Hall Science Explorer - 16 Book Series © 2009 with the
Event-Based Science Series © 2005
Correlated to:
The Revised Washington State K-12 Science Standards, (12/14/2008)
(Grades 6-8)**

The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
GRADES 6-8	
EALR 1: Systems (SYS)	
Core Content: Inputs, Outputs, Boundaries and Flows	
<p>In prior grades, students learned about the functioning of simple systems, including inputs and outputs. In grades 6-8, students learn how to use systems thinking to simplify and analyze complex situations. Systems concepts that students learn to apply at this level include choosing system boundaries, determining if a system is open or closed, measuring the flow of matter and energy through a system, and applying systems thinking to a complex societal issue that involves science and technology. These insights and abilities can help students see the connections between and among the domains of science and among science, technology, and society.</p>	
Content Standards	
Students know that:	
<p>6-8 SYSA - Any system may be thought of as containing subsystems and as being a subsystem of a larger system.</p>	<p>From Bacteria to Plants SE/TE: 66-67, 112-113; Science and Society: 66-67; Technology and Society: 112-113 TE: 66, 67; Background: 66; Differentiated Instruction: 67 TECH: Teacher Express CD; Presentation Express CD; Student Edition on Audio CD TECH: PHSchool.com: ceh-1020, ceh-1040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Animals SE/TE: 24-25, 64-65, 68-69, 108-109; Science and History: 108-109; Science and Society: 24-25; Tech and Design in History: 64-65; Technology and Society: 68-69; Writing in Science: 65, 109 TE: 25, 68, 108, 109; Background: 25, 68; Build Inquiry: 108; Differentiated Instruction: 65, 109 TECH: PHSchool.com: ceh-2010, ceh-2020; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 8-9, 68-69, 130-131; Science and History: 8-9; Science and Society: 68-69; Technology and Society: 130-131; Writing in Science: 9 TE: 8, 9, 68, 130; Background: 8, 68, 130; Build Inquiry: 8; Differentiated Instruction: 9 TECH: PHSchool.com: ceh-3020, ceh-3040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Human Biology and Health SE/TE: 100-101, 104-105, 156, -157, 190-191; Science and History: 156; Science and Society: 190; Tech and Design in History: 100-101; Technology and Society: 104-105; Writing in Science: 101, 156 TE: 101, 104, 156, 157, 190; Background: 101, 104, 156, 190; Build Inquiry: 100, 157; Differentiated Instruction: 100, 157 TECH: PHSchool.com: ceh-4030, ceh-4060; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Environmental Science SE/TE: 22, 84, 85, 180, 181, 184; Science and History: 84; Science and Society: 22; Tech and Design in History: 180; Technology and Society: 184; Writing in Science: 85, 181 TE only: 23, 84, 85, 180, 181; Background: 23, 180; Build Inquiry: 84; Differentiated Instruction: 84, 85, 181 TECH: PHSchool.com: cfh-5010, cfh-20300; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Inside Earth SE/TE: 74, 128, 132; Science and Society: 128; Tech and Design in History: 132; Technology and Society: 74; Writing in Science: 133 TE only: 74, 129, 133; Background: 74, 129; Differentiated Instruction: 133 TECH: PHSchool.com: cfh-1020, cfh-1040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Earth's Changing Surface SE/TE: 14, 24, 84; Science and History: 14; Science and Society: 84; Technology and Society: 24; Writing in Science: 15 TE only: 14, 15, 24, 84; Background: 14, 24, 84; Differentiated Instruction: 15 TECH: PHSchool.com: cfh-2010, cgh-6030; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Earth's Waters SE/TE: 50, 51, 64, 132-133, 166; Science and Society: 166; Tech and Design in History: 50, 132; Technology and Society: 64; Writing in Science: 51, 133 TE only: 51, 64, 132, 133; Background: 64, 132; Build Inquiry: 132; Differentiated Instruction: 51, 133 TECH: PHSchool.com: cfh-3020, cfh-3040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Weather and Climate SE/TE: 18-19, 28-29, 84-85, 100; Science and History: 84; Science and Society: 28; Tech and Design in History: 18; Technology and Society: 100; Writing in Science: 19, 85 TE only: 28, 84, 85, 100; Background: 28, 84, 100; Build Inquiry: 18; Differentiated Instruction: 18, 85 TECH: PHSchool.com: cfh-4010, cfh-4030; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Astronomy SE/TE: 8, 64, 92, 122; Science and History: 8; Science and Society: 92; Tech and Design in History: 122; Technology and Society: 64; Writing in Science: 8, 123 TE only: 8, 64, 122, 123; Background: 8, 64, 122; Build Inquiry: 122; Differentiated Instruction: 9, 123 TECH: PHSchool.com: cfh-5020, cfh-5030; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Chemical Building Blocks SE/TE: 28, 76, 122, 128; Science and History: 76; Science and Society: 28; Tech and Design in History: 122; Technology and Society: 128; Writing in Science: 77, 123 TE only: Background: 29, 76, 122, 128; Build Inquiry: 76; Differentiated Instruction: 77 TECH: PHSchool.com: cgh-1010, cgh-1040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Chemical Interaction SE/TE: 18, 19, 64, 138, 139, 146; Science and History: 18; Science and Society: 146; Tech and Design in History: 138; Technology and Society: 64; Writing in Science: 19, 139 TE only: 18, 19, 64, 65, 138, 146; Background: 18, 19, 64, 65, 138, 146 TECH: PHSchool.com: cgh-2020, cgh-2040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Motion Force and Energy SE/TE: 100, 138; Technology and Society: 100; Science and Society: 138 TE only: Background: 100, 138 TECH: PHSchool.com: cgh-3030, cgh-3040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Electricity and Magnetism SE/TE: 90, 96, 126, 127, 136; Science and History: 96; Science and Society: 136; Tech and Design in History: 126; Technology and Society: 90; Writing in Science: 97, 127 TE only: 91, 137; Background: 91, 137 TECH: PHSchool.com: cgh-4030, cgh-4040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Sound and Light SE/TE: 58-59, 82-83, 94-95, 134, 135; Science and History: 94-95; Science and Society: 58-59; Tech and Design in History: 134; Technology and Society: 82-83; Writing in Science: 95, 135 TE only: 59, 83, 94, 95, 134, 135; Background: 59, 83, 94, 95, 134, 135 TECH: PHSchool.com: cgh-5020, cgh-5030; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>The Nature of Science and Technology SE/TE: 46, 58, 112, 116; Science and History: 46; Science and Society: 58; Tech and Design in History: 112; Technology and Society: 116; Writing in Science: 46, 112 TE only: 46, 58, 112, 117; Background: 58, 112, 117; Build Inquiry: 46 TECH: PHSchool.com: cgh-6020, cgh-6030; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Asteroid! SE: 2, 4</p> <p>Hurricane! SE: 1</p>

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<p>6-8 SYSB - The boundaries of a system can be drawn differently depending on the features of the system being investigated, the size of the system, and the purpose of the investigation.</p>	<p>From Bacteria to Plants SE/TE: 66-67, 112-113; Science and Society: 66-67; Technology and Society: 112-113 TE only: 66, 67; Background: 66; Differentiated Instruction: 67 TECH: PHSchool.com: ceh-1020, ceh-1040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Animals SE/TE: 24-25, 64-65, 68-69, 108-109; Science and History: 108-109; Science and Society: 24-25; Tech and Design in History: 64-65; Technology and Society: 68-69; Writing in Science: 65, 109 TE only: 25, 68, 108, 109; Background: 25, 68; Build Inquiry: 108; Differentiated Instruction: 65, 109 TECH: PHSchool.com: ceh-2010, ceh-2020; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 8-9, 68-69, 130-131; Science and History: 8-9; Science and Society: 68-69; Technology and Society: 130-131; Writing in Science: 9 TE only: 8, 9, 68, 130; Background: 8, 68, 130; Build Inquiry: 8; Differentiated Instruction: 9 TECH: PHSchool.com: ceh-3020, ceh-3040; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Human Biology and Health SE/TE: 100-101, 104-105, 156,-157, 190-191; Science and History: 156; Science and Society: 190; Tech and Design in History: 100-101; Technology and Society: 104-105; Writing in Science: 101, 156 TE only: 101, 104, 156, 157, 190; Background: 101, 104, 156, 190; Build Inquiry: 100, 157; Differentiated Instruction: 100, 157 TECH: PHSchool.com: ceh-4030, ceh-4060; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p>Environmental Science SE/TE: 22, 84, 85, 180, 181, 184; Science and History: 84; Science and Society: 22; Tech and Design in History: 180; Technology and Society: 184; Writing in Science: 85, 181 TE only: 23, 84, 85, 180, 181; Background: 23, 180; Build Inquiry: 84; Differentiated Instruction: 84, 85, 181 TECH: PHSchool.com: cfh-5010, cfh-20300; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p>

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<p>(Continued)</p>	<p>(Continued) The Nature of Science and Technology SE/TE: 46, 58, 112, 116; Science and History: 46; Science and Society: 58; Tech and Design in History: 112; Technology and Society: 116; Writing in Science: 46, 112 TE only: 46, 58, 112, 117; Background: 58, 112, 117; Build Inquiry: 46 TECH: PHSchool.com: cgh-6020, cgh-6030; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following: Tornado TG: 15-16 SE: 24-25 Hurricane TG: 12-13 SE: 30-37</p>
<p>6-8 SYSC - The output of one system can become the input of another system.</p>	<p>The Nature of Science and Technology SE/TE: 94-95; Figure: 94; At Home Activity: 95 TE only: Teach Key Concepts: 94; Use Visuals: 94; Reviewing Key Concepts: 95; Reteach: 95; Performance Assessment: 95 TR: All-In-One: Transparency: P32 TECH: SciLinks.org: scn-1631; Online Textbook; Presentation Express CD; Student Edition CD</p> <p><u>EVENT-BASED SCIENCE</u> Asteroid! SE: 6</p> <p>Fire! SE: 53</p>

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<p>6-8 SYSD - In an open system, matter flows into and out of the system. In a closed system, energy may flow into or out of the system, but matter stays within the system.</p>	<p>The Nature of Science and Technology SE/TE: 88-95, 96, 97-105, 106-107; At Home Activity: 95; Discover Activity: 88, 97; Key Terms: 88, 97; Skills Activity: 90; Skills Lab: 96; Target Reading Skills: 88, 97; Technology Lab: 108-107; Try This Activity: 93, 101 TE only: Address Misconceptions: 86F, 89; Build Inquiry: 92, 101; Content Refresher: 86F; Differentiated Instruction: 89, 92, 98, 103; Monitor Progress: 89, 91, 93, 95, 103, 104; Performance Assessment: 95, 105; Teacher Demo: 98, 99, 101; Teach Key Concepts: 89, 91, 92, 94, 99, 100, 102, 103, 104; Use Visuals: 90, 94 TR: All-In-One: Guided Reading: 179-182, 190-193; Section Summary: 178, 189; Review and Reinforce: 183, 194; Enrich: 184, 195; Skills Lab Worksheet: 185-187; Technology Lab Worksheet: 196-198 TECH: PHSchool.com: cgp-6032; SciLinks.org:scn-1631; Online Textbook; Presentation Express CD</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! TG: 7, 8, 9, 10, 11, 12, 13, 14</p> <p>Blight! SE: 9</p> <p>Global Warming? SE: 8</p> <p>Hurricane! SE: 38</p> <p>Outbreak! SE: 5 TG: 15</p>

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<p>6-8 SYSE - If the input of matter or energy is the same as the output, then the amount of matter or energy in the system won't change; but if the input is more or less than the output, then the amount of matter or energy in the system will change.</p>	<p>Chemical Building Blocks SE/TE: 48-49, 58-63; Skills Activity: 48; Try This Activity: 58; Figure: 49, 58, 59; Reading Checkpoint: 59; Section Assessment: 63 TE only: Address Misconceptions: 48; Build Inquiry: 58; Teacher Demo: 48, 58; Teaching Key Concepts: 60, 62; Differentiated Instruction: 49, 61, 62; Math Analyzing Data: 61; Use Visuals: 49, 59, 61; Monitor Progress: 49, 59, 61, 63; Help Student Read: 62; Reviewing Key Concepts: 63; Reteach: 63; Performance Assessment: 63 TR: All-in-One: Transparency: L55, 17, 20, 21; Section Summary: 118; Review and Reinforce: 122; Enrich: 123 TECH: SciLink.org: scn-1221; PHSchool.com: Active Art: cgp-2022; Online Textbook; Presentation Express CD; Student Edition CD</p> <p><u>EVENT-BASED SCIENCE</u> Fire! SE: 54, 55</p>

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<p>6-8 SYSF - The natural and designed world is complex; it is too large and complicated to investigate and comprehend all at once. Scientists and students learn to define small portions for the convenience of investigation. The units of investigation can be referred to as systems.</p>	<p>The Nature of Science and Technology SE/TE: 13-23, Discover Activity: 13, Key Terms: 13, Discover Activity: 14, 16, 14, 16; Target Reading Skills: 13; Try This Activity: 19; Skills HandBook: 132-133; Discovery Channel School Video Field Trip: 15; Teach Key Concept: 14, 15, 16, 18, 19; Reading Checkpoint: 14, 15, 19, 21, 22 TE only: Differentiated Instruction: 15, 17; Monitor Progress: 15, 17, 19, 21, 22; Use Visuals: 11, 18; Teach Key Concepts: 15, 16, 18, 19, 21; Teacher Demo Lab: 17; Help Students Read: 16; Monitor Progress: 17, 19, 21, 22; Use Visuals: 18, 19; Review Key Concepts: 22; Reteach: 22; Performance Assessment: 22 TR: All-In-One: Guided Reading: 56-59; Section Summary: 54; Review and Reinforce: 59; Enrich: 60; Transparency: P1, 2 TECH: Active Art: cgp-6012; PHSchool.com: cgd-6011; SciLinks.com: scn-1613; Discovery Channel School Video/DVD; Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text; Discovery Channel School Video/DVD</p> <p><u>EVENT-BASED SCIENCE</u> Asteroid! SE: 2, 3, 4</p> <p>Earthquake! SE: 23 TG: 9</p>
<p>Performance Expectations Students are expected to:</p>	
<p>Given a system, identify subsystems and a larger encompassing system (e.g., the heart is a system made up of tissues and cells, and is part of the larger circulatory system).</p>	<p><u>EVENT-BASED SCIENCE</u> Asteroid! SE: 4</p>

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<p>Explain how the boundaries of a system can be drawn to fit the purpose of the study (e.g., to study how insect populations change a system might be a forest, a meadow in the forest, or a single tree).</p>	<p>Environmental Science SE/TE: 13-21; Key Terms: 13; Target Reading Skills: 13; Discover Activity: 13; Figure: 17, 18; Use Visuals: 29; Science and Society: 22-23; Try This Activity: 19; Background: 23; Math Practice: 20; Skills Lab: 21; Math Skills: 16; Integrate Health: 30; Section Assessment: 20 TE only: Differentiated Instruction: 14, 16, 17, 25; Misconceptions: 4H, 25; Build Inquiry: 15, 17, 19, 26, 28; Teach Key Concepts: 14, 16, 18, 25, 26, 27, 30; Monitor Progress: 15, 17, 19, 25, 27, 29, 31; Math Analyzing Data: 27; Review Key Concepts: 20, 31; Reteach: 20, 31; Performance Assessment: 20, 31 TR: All-In-One: Reading Strategy Transparency: E1, 3; Skills Lab Worksheet: 61-63; Guided Reading: 57-58; Section Summary: 56; Review and Reinforce: 59; Transparencies: E4, 5; Enrich: 60 TECH: NSTA PDLink: scf-0510; PHSchool.com: cep-5012, ceh-5010; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following: Tornado TG: 15-16 SE: 24-25 Hurricane TG: 12-13 SE: 30-37</p>

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<p>Give an example of how output of matter or energy from a system can become input for another system (e.g., household waste goes to a landfill).</p>	<p>Environmental Science SE/TE: 50- 53, 122-131; Try This Activity: 50; Figure: 51, 52; Reading Checkpoint: 53, 126; Section Assessment: 53; Skills Lab: 130-131; Writing in Science: 53 TE only: Teach Key Concepts: 50, 52, 123, 125, 127, 128; Help Students Read: 50; Differentiated Instruction: 51, 123, 127; Monitor Progress: 51, 53, 123, 125, 127, 129; Integrating Technology: 126; Teacher Demo: 124; Build Inquiry: 51, 52, 126, 127; Help Students Read: 128; Use Visuals: 124; Reviewing Key Concepts: 53, 129; Reteach: 53, 129; Performance Assessment: 53, 129 TR: All-In-One: Transparency: E16, 31; Guided Reading: 246-250; Section Summary: 245; Review and Reinforce: 251; Enrich: 252 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Fire! SE: 53</p>
<p>Given a description of a system, analyze and defend whether it is open or closed.</p>	<p>Environmental Science SE/TE: 146-151; Key Terms: 146; Target Reading Skills: 146; Discover Activity: 146; Math Analyzing Data: 149; Math Practice: 151; Math Skills: 147; Section Assessment: 151 TE only: Differentiated Instruction: 147, 150; Teach Key Concepts: 147, 150; Monitor Progress: 147, 149; Build Inquiry: 148; Reviewing Key Concept: 151; Reteach: 151; Performance Assessment: 151 TR: All-In-One: Guided Reading: 274-275; Transparencies: E37, 38; Section Summary: 273; Review and Reinforce: 277; Enrich: 278 TECH: SciLinks.org: scn-0545; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! SE: 10, 11, 12, 18, 30 TG: 6, 7, 8, 9, 10, 11, 12, 13, 14, 20, 21, 24, 25, 26, 27</p>

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<p>Measure the flow of matter into and out of an open system and predict how the system is likely to change (e.g., a bottle of water with a hole in the bottom, an ecosystem, an electric circuit).</p>	<p>Environmental Science SE/TE: 42-47; At Home Activity: 47; Discover Activity; 42; Key Terms: 42; Target Reading Skills: 42; Try This Activity; 44 TE only: Address Misconceptions: 40H, 44; Build Inquiry: 45; Differentiated Instruction: 43, 46; Performance Assessment: 47; Monitor Progress: 43, 45, 47; Teach Key Concepts: 43, 44, 46 TR: All-In-One: Guided Reading: 109-111; Transparency: E12, 13; Section Summary: 108; Review and Reinforce: 112; Enrich: 113 TECH: PHSchool.com: cgd-4022; SciLinks.org: scn-0521; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Electricity and Magnetism SE/TE: 44-53, 60-66; Key Terms: 44, 60; Target Reading Skills: 44, 60; Discover Activity: 44, 60; Reading Checkpoint: 46, 47, 49, 63; Skills Activity: 65; Section Assessment: 51, 66; Writing in Science: 51; Math Skills: 61; Math Practice: 62, 66 TE only: Differentiated Instruction: 45, 63; Teach Key Concepts: 45, 46, 48, 50, 61, 62, 64, 65; Monitor Progress: 45, 49, 61, 63, 65, 66; Use Visuals: 46; Address Misconceptions: 47; Help Students Read: 48; Build Inquiry: 49; Teacher Demo: 50, 63; Reviewing Key Concepts: 51, 66; Reteach: 51, 66; Performance Assessment: 51, 66 TR: All-In-One: Guided Reading: 119-121, 140-143; Transparency: N18, 22, 23, 24; Skills Lab: 124-126; Section Summary: 118, 139; Review and Reinforce: 122, 144; Enrich: 123, 145 TECH: PHSchool.com: cgd-4022, cgd-4023; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Blackout! SE: 10, 11, 12, 18, 30 TG: 6, 7, 8, 9, 10, 11, 12, 13, 14, 20, 21, 24, 25, 26, 27</p> <p>Tornado! TG: 7</p>

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<p>Given a complex societal issue with strong science and technology components (e.g., overfishing, global warming), describe the issue from a systems point of view, highlighting how changes in one part of the system are likely to influence other parts of the system.</p>	<p>From Bacteria to Plants SE/TE: 66; Science and Society: Antibiotic Resistance- An Alarming Trend: 66; Background: 66; Differentiated Instruction: 67 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Animals SE/TE: 24; Science and Society: Coral Reefs in Danger: 24; Background: 25 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Cells and Heredity SE/TE: 68; Science and Society: When Should New Medicines Be Made Available?: 68; Background: 68 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Environmental Science SE/TE: 22; Science and Society: Animal Overpopulations: 22; Background: 23 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Inside Earth SE/TE: 128; Science and Society: Who Owns the Ocean’s Minerals?: 128; Background: 129 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Earth’s Water SE/TE: 166; Science and Society: Shrimp Farms- At What Cost?: 166; Background: 64 TECH: PHSchool.com cfh-3040: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Weather and Climate SE/TE: 28; Science and Society: Cars and Clean Air: 28; Background: 28 TECH: PHSchool.com cfh-4010: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Astronomy SE/TE: 92; Science and Society: Space Exploration-Is It Worth the Cost:92 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Chemical Building Blocks SE/TE: 28; Science and Society: 28: Background: 29 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
(Continued)	(Continued) Motion Force and Energy SE/TE: 138; Science and Society: Automation in the Workplace-Lost Jobs or New Jobs?: 138; Background: 138 TECH: PHSchool.com cgh-3040; Student Edition on Audio CD; Online Textbook; Teacher Express CD The Nature of Science and Technology SE/TE: 58; Science and Society: The Internet: 58; Background: 58 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD <u>EVENT-BASED SCIENCE</u> Fire! SE: 54, 55 Global Warming? SE: 8, 54, 55, 56, 57, 58, 59

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EALR 2: Inquiry (INQ)	
Core Content: Questioning and Investigating	
<p>In prior grades, students learned to plan investigations to match a given research question. In grades 6-8, students learn to revise questions so they can be answered scientifically, and then to design an appropriate investigation to answer the question and carry out the study, using appropriate technologies, including computers. Students learn to think critically and logically to make connections between prior science knowledge and evidence produced from their investigations. Students can work well in collaborative teams, and communicate the procedures and results of their investigations and are expected to critique their own findings as well as the findings of others.</p>	
Content Standards	
Students know that:	
<p>6-8 INQA - Question - Scientific inquiry involves asking and answering questions and comparing the answer with what scientists already know about the world.</p>	<p>From Bacteria to Plants SE/TE: 66; Science and Society: Antibiotic Resistance- An Alarming Trend: 66; Background: 66; Differentiated Instruction: 67 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Animals SE/TE: 24; Science and Society: Coral Reefs in Danger: 24; Background: 25 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Cells and Heredity SE/TE: 68; Science and Society: When Should New Medicines Be Made Available?: 68; Background: 68 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Human Biology and Health SE/TE: 190; Science and Society: 190; Background: 190 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Environmental Science SE/TE: 22; Science and Society: Animal Overpopulations: 22; Background: 23 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Inside Earth SE/TE: 128; Science and Society: Who Owns the Ocean's Minerals?: 128; Background: 129 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Earth's Changing Surface SE/TE: 84; Science and Society: Protecting Homes in Flood Plan: 84; Background: 84 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
(Continued)	<p>(Continued)</p> <p>Earth's Waters SE/TE: 166; Science and Society: Shrimp Farms- At What Cost?: 166; Background: 64 TECH: PHSchool.com cfh-3040: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Weather and Climate SE/TE: 28; Science and Society: Cars and Clean Air: 28; Background: 28 TECH: PHSchool.com cfh-4010: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Astronomy SE/TE: 92; Science and Society: Space Exploration-Is It Worth the Cost:92 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Chemical Building Blocks SE/TE: 28; Science and Society: 28: Background: 29 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Chemical Interaction SE/TE: 146; Science and Society: The Sweet Dilemma:146; Background: 146 TECH: PHSchool.com: cgh-2040; Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Motion, Forces, and Energy SE/TE: 138; Science and Society: Automation in the Workplace-Lost Jobs or New Jobs?: 138; Background: 138 TECH: PHSchool.com cgh-3040; Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Electricity and Magnetism SE/TE: 136; Science and Society: Generating Electrical Energy: 136; Background: 137 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD</p> <p>Sound and Light SE/TE: 58; Science and Society: Keeping it Quiet: 58; Background: 59 TECH: PHSchool.com cgh-5020; Student Edition on Audio CD; Online Textbook; Teacher Express CD</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
(Continued)	(Continued) The Nature of Science and Technology SE/TE: 58; Science and Society: The Internet: 58; Background: 58 TECH: Student Edition on Audio CD; Online Textbook; Teacher Express CD <u>EVENT-BASED SCIENCE</u> First Flight! SE: 12 Fraud! SE: 24

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<p>6-8 INQB - Investigate - Different kinds of questions suggest different kinds of scientific investigations.</p>	<p>From Bacteria to Plants SE/TE: 15, 25, 47, 87, 96, 125, 158; Skills Lab: 15, 25, 47, 87, 96, 125, 158 TR: All-In-One: Skills Lab Worksheet: 53-54, 63-65, 115-116, 177-178, 186-188, 242-243, 302-304 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Animals SE/TE: 33,46,60,84,93,126,164; Skills Lab: 33,46,60,84,93,126,164 TR: All-In-One: Skills Lab Worksheet: 76-78, 119-120, 135-137, 188-189, 197-198, 258-260, 325-327 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Cells and Heredity SE/TE: 63, 82, 90, 122, 129, 146, 154; Skills Lab: 63, 82, 90, 122, 129, 146, 154 TR: All-In-One: Skills Lab Worksheet: 133-134, 180-182, 190-192, 250-251, 258-259 300-302, 309-310 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Human Biology and Health SE/TE: 29, 66, 90, 103, 121, 131, 152, 164, 241; Skills Lab: 29, 66, 90, 103, 121, 131, 152, 164, 241 TR: All-In-One: Skills Lab Worksheet: 74-75, 138-140, 192-193, 208-209, 248-249, 264-266, 310-311, 326-328, 454-455 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Inside Earth SE/TE: 30, 37, 58, 86, 106, 123, 163; Skills Lab: 30, 37, 58, 86, 106, 123, 163 TR: All-In-One: Skills Lab Worksheet: 73-76, 84-85, 134-136, 190-192, 217-218, 257, 346-348 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p>

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(Continued)	<p>(Continued)</p> <p>Earth's Changing Surface SE/TE: 20, 31, 46, 70, 82, 122, 146; Skills Lab: 20, 31, 46, 70, 82, 122, 146 TR: All-In-One: Skills Lab Worksheet: 63,78, 117-119, 171-172, 181-183, 256-257, 285-287 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Earth's Waters SE/TE: 18, 36, 122, 140, 165; Skills Lab: 18, 36, 122, 140, 165 TR: All-In-One: Skills Lab Worksheet: 62-63, 126-127, 224-225, 263-264, 294-296 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Weather and Climate SE/TE: 40; Skills Lab: 40 TR: All-In-One: Skills Lab Worksheet: 114-116 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Astronomy SE/TE: 21, 34, 54, 66, 106, 147; Skills Lab: 14, 28, 83, 134 TR: All-In-One: Skills Lab Worksheet: 52-54, 69-70, 184-185, 267-269 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Chemical Building Blocks SE/TE: 21, 34, 54, 66, 106, 147; Skills Lab: 21, 34, 54, 66, 106, 147 TR: All-In-One: Skills Lab Worksheet: 59-60, 73-74, 121-122, 137-139, 203-205, 273-274 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Chemical Interaction SE/TE: 28, 54, 72, 135; Skills Lab: 28, 54, 72, 135 TR: All-In-One: Skills Lab Worksheet: 69-72, 124-127, 145-147, 271-272 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p>

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(Continued)	<p>(Continued)</p> <p>Motion Force and Energy SE/TE: 16, 28, 62, 122, 136, 156, 164, 188; Skills Lab: 16, 28, 62, 122, 136, 156, 164, 188 TR: All-In-One: Skills Lab Worksheet: 52-54, 68-71, 133-135, 253-256, 266-268, 313-315, 323-326, 381-383 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Electricity and Magnetism SE/TE: 12, 42-43, 52, 92, 130; Skills Lab: 12, 42-43, 52, 92, 130 TR: All-In-One: Skills Lab Worksheet: 52-55, 113-116, 124-126, 209-212, 276-279 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Sound and Light SE/TE: 16, 24-25, 97-99, 112, 124; Skills Lab: 16, 24-25, 97-99, 112, 124 TR: All-In-One: Skills Lab Worksheet: 59-60, 69-71, 211-213, 252-253, 268-270 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Blight! SE: 10, 11, 19; TG: 6, 7, 8, 9, 10, 11, 12</p> <p>Earthquake! SE: 23, 34 TG: 9, 13</p>

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<p>6-8 INQC - Investigate - Collecting, analyzing, and displaying data are essential aspects of all investigations.</p>	<p>From Bacteria to Plants SE/TE: 5, 39, 73, 103, 135; Chapter Project: 5, 39, 73, 103, 135 TE: Performance Assessment: 5, 36, 39, 70, 73, 100, 103, 132, 135, 172 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Animals SE/TE: 5, 39, 79, 117, 147; Chapter Project: 5, 39, 79, 117, 147 TE: Performance Assessment: 5, 36, 39, 76, 79, 114, 117, 144, 147, 172 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Cells and Heredity SE/TE: 5, 43, 75, 109, 137; Chapter Project: 5, 43, 75, 109, 137 TE: Performance Assessment: 5, 40, 43, 72, 75, 106, 109, 134, 137 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Human Biology and Health SE/TE: 5, 43, 77, 111, 139, 175, 215; Chapter Project: 5, 43, 77, 111, 139, 175, 215 TE: Performance Assessment: 5, 40, 43, 74, 77, 108, 111, 136, 139, 172, 175, 212, 215, 244 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Environmental Science SE/TE: 5, 41, 81, 115, 157; Chapter Project: 5, 41, 81, 115, 157 TE: Performance Assessment: 5, 38, 41, 78, 81, 112, 115, 154, 157 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Inside Earth SE/TE: 5, 43, 81, 113, 143; Chapter Project: 5, 43, 81, 113, 143 TE only: Performance Assessment: 5, 40, 43, 78, 81, 110, 113, 140, 143, 170 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p>

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(Continued)	<p>(Continued)</p> <p>Motion Force and Energy SE/TE: 34, 35, 54, 70, 72, 73, 87, 94, 104, 106, 107, 113, 121, 142, 144, 145, 150, 169, 172, 174, 175, 187, 189, 199, 202; Chapter Project: 35, 73, 107, 145, 175, 202 TE only: Performance Assessment: 34, 54, 70, 73, 104, 107, 142, 145, 172, 189, 202 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Electricity and Magnetism SE/TE: 5, 33, 79, 107; Chapter Project: 5, 33, 79, 107 TE only: Performance Assessment: 5, 30, 33, 76, 79, 104, 107, 140 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>Sound and Light SE/TE: 5, 35, 69, 105; Chapter Project: 5, 35, 69, 105 TE only: Performance Assessment: 5, 32, 35, 66, 69, 102, 105, 140 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p>The Nature of Science and Technology SE/TE: 5, 43, 87; Chapter Project: 5, 43, 87 TE only: Performance Assessment: 5, 40, 43, 84, 87, 120 TECH: Lab Activity Video; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Blight! SE: 10, 11, 27, 35, 36, 44 TG: 6, 7, 10, 11, 12, 13, 14, 16</p> <p>Earthquake! SE: 23 TG: 9</p> <p>Hurricane! SE: 37</p>

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<p>6-8 INQD - Investigate - For an experiment to be valid, all (controlled) variables must be kept the same whenever possible, except for the manipulated (independent) variable being tested, and the responding (dependent) variable being measured and recorded. If a variable cannot be controlled, it must be reported and accounted for.</p>	<p>The Nature of Science and Technology SE/TE: 16-17, 132-133; Reading Checkpoint: 17; Skills Activity: 16; Conducting a Scientific Investigation: 132-133 TE only: Teach Key Concept: 16; Help Students Read: 16; Differentiated Instruction: 17; Teacher Demo: 17; Monitor Progress: 17; Interpreting Data: 133; Drawing Conclusions: 133 TECH: Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 35, 36 TG: 13, 14</p> <p>Global Warming? SE: 41 TG: 13, 15, 16</p>
<p>6-8 INQE - Model - Models are used to represent objects, events, systems, and processes. Models can be used to test hypotheses and better understand phenomena, but they have limitations.</p>	<p>From Bacteria to Plants SE/TE: 4, 32, 42, 47, 78, 80, 92, 102-103, 139, 143, 153, 158-159, 161; Chapter Project: 4-5, 102-103; Skills Lab: 47, 158-159; Try This Activity: 92 TE only: Build Inquiry: 32, 42, 78, 80, 139, 153; Differentiated Instruction: 143, 161 TR: All-In-One: Skills Lab Worksheet: 115-116, 302-304 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Animals SE/TE: 9, 17, 20, 44, 78-79, 93, 97, 110, 121, 130, 168; Chapter Project: 78-79; Skills Lab: 93; Try This Activity: 9, 97, 130 TE only: Build Inquiry: 17, 20, 110, 121, 168; Teacher Demo: 44 TR: All-In-One: Skills Lab Worksheet: 197-198 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Cells and Heredity SE/TE: 18, 19, 27, 28, 36, 56, 58, 59, 61, 74-75, 90-91, 92, 93, 95, 99, 101, 102, 108-109, 114, 119, 127, 136-137, 146-147, 151, 157, 159; Chapter Project: 74-75, 108-109, 136-137; Skills Lab: 90-91, 146-147; Try This Activity: 18, 56 TE only: Build Inquiry: 58, 59, 61, 95, 99, 101, 114, 127, 159; Differentiated Instruction: 19, 27, 36, 93, 157; Teach Key Concept: 102, 151; Teacher Demo: 28 TR: All-In-One: Skills Lab Worksheet: 190-192, 300-302 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Human Biology and Health SE/TE: 4-5, 7, 23, 46, 63, 70, 76-77, 81, 93, 94, 114, 115, 121, 125, 129, 130, 147, 148, 152-153, 157, 161, 164-165, 185, 194, 197, 198, 214-215, 218, 220, 235; Chapter Project: 4-5, 76-77, 214-215; Skills Lab: 152-153, 164-165; Try This Activity: 7, 63, 94, 148, 235 TE only: Build Inquiry: 23, 115, 157, 185, 197, 198; Differentiated Instruction: 81, 93, 147; Teach Key Concepts: 46, 130, 161; Teacher Demo: 129, 194; Use Visual: 114 TR: All-In-One: Skills Lab Worksheet: 310-311, 326-327 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Environmental Science SE/TE: 12, 19, 40-41, 44, 61, 63, 68-69, 91, 97, 114-115, 120, 12, 135, 136, 148; Chapter Project: 40-41, 114-115; Skills Lab: 12, 68-69; Try This Activity: 19, 44, 136 TE only: Build Inquiry: 61, 63, 91, 135, 148; Teacher Demo: 97, 120, 124 TR: All-In-One: Skills Lab Worksheet: 53-54, 134-136 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD</p>

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(continued)	<p>(continued)</p> <p>Fire! SE: 27 TG: 15</p> <p>First Flight! SE: 8, 9, 19</p> <p>Global Warming? SE: 8, 27, 28</p> <p>Outbreak! SE: 5 TG: 15</p>
6-8 INQF - Explain - It is important to distinguish between the results of a particular investigation and general conclusions drawn from these results.	<p>The Nature of Science and Technology SE/TE: 6-12, 13-23; Discover Activity: 6, 13; Discovery Channel School Video Field Trip: 15; Key Terms: 6, 13; At Home Activity: 12; PHSchool.com: cgd-6011, cgp-6012; Skills Activity: 14, 16, 14, 16; Skills Lab: 23; Target Reading Skills: 6, 13; Try This Activity: 19; Skills HandBook: 128-129, 132-133, 134-135; Math Analyzing Data: 9 TE only: Address Misconceptions: 4G, 8; Build Inquiry Lab: 10; Differentiated Instruction: 7, 10, 15, 17; Monitor Progress: 7, 9, 11, 15, 17, 19, 21, 22; Performance Assessment: 22; Teacher Demo Lab: 17; Teach Key Concept: 14, 15, 16, 18, 19; Use Visuals: 11, 18 TR: All-In-One: Guided Reading: 49-50, 55-58; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60; Skills Lab Worksheet:: 62-64</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following: Volcano SE: 49-50, 61-62 TE: 18-19, 29 Tornado SE: 7-8 TE: 8, 9</p>

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<p>6-8 INQG - Communicate Clearly - Scientific reports should enable another investigator to repeat the study to check the results.</p>	<p>From Bacteria to Plants SE/TE: 38-39, 43, 45, 47, 59, 72-73, 83, 87, 99, 102-103, 119, 121, 125, 134-135, 139, 150, 164, 169; At Home: 164; Consumer Lab: 59, 72-73, 102-103, 134-135; Chapter Project: 38-39; Design Your Own Lab: 121; Skills Lab: 47, 87, 125, 159; Technology Lab: 169; Writing in Science: 99 TE only: Monitor Progress: 43, 45, 139; Performance Assessment: 83, 119 TR: All-In-One: Lab Worksheet: 115-116, 177-178, 232-234, 242-243, 302-304 TECH: Lab Activity Video/DVD; Lab Zone CD; Presentation Express CD; Teacher Express CD; Online Text</p> <p>Animals SE/TE: 4-5, 18, 33, 57, 60-61, 78-79, 83, 84-85, 93, 125, 141, 146-147, 155, 164-165; Chapter Project: 4-5, 78-79, 146-147; Consumer Lab: 141; Design Your Own Lab: 155; Skills Lab: 33, 60-61, 84-85, 93, 164-165 TE only: Differentiated Instruction: 57; Performance Assessment: 45, 83, 125 TR: All-In-One: Lab Worksheet: 76-78, 135-137, 188-189, 316-317, 325-327 TECH: Lab Activity Video/DVD; Lab Zone CD; Presentation Express CD; Teacher Express CD; Online Text</p>

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<p>6-8 INQH - Intellectual Honestly - Science advances through openness to new ideas, honesty, and legitimate Skepticism. Asking thoughtful questions, querying other scientists' explanations, and evaluating one's own thinking in response to the ideas of others are abilities of scientific inquiry.</p>	<p>Nature of Science and Technology SE/TE: 24-29; Key Terms 24, Target Reading Skills: 24, Discover Activity: 24; Skills Activity: 26; Writing in Science: 29; Section Assessment: 29 TE only: Differentiated Instruction: 25, 27; Teach Key Concept: 25, 26, 27, 28; Monitor Progress: 25, 27, 29; Teacher Demo: 28; Reviewing Key Concepts: 29; Reteach: 29; Performance Assessment: 29 TR: All-In-One: Reading Strategy Transparency: P3; Guided Reading: 66-68; Section Summary: 65; Review and Reinforce: 69; Enrich: 70 TECH: PHSchool.com: scn-1613; Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text; Discovery Channel School Video/ DVD</p> <p><u>EVENT-BASED SCIENCE</u> Fraud! SE: 24</p>
<p>6-8 INQI - Consider Ethics - Scientists and engineers have ethical codes governing animal experiments, research in natural ecosystems, and studies that involve human subjects.</p>	<p>The Nature of Science and Technology SE/TE: 6-12, 13-23, 24-29; Discover Activity: 6, 13, 24; Key Terms: 6, 13, 24; At Home Activity: 12; Skills Activity: 14, 16, 14, 16, 26; Skills Lab: 23; Target Reading Skills: 6, 13, 24; Try This Activity: 19; Skills HandBook: 128-129, 132-133, 134-135; Math Analyzing Data: 9 TE only: Address Misconceptions: 8; Build Inquiry Lab: 10; Differentiated Instruction: 7, 10, 15, 17, 25, 27; Monitor Progress: 7, 9, 11, 15, 17, 19, 21, 22, 25, 29; Performance Assessment: 22, 29; Teacher Demo Lab: 17, 28; Teach Key Concept: 14, 15, 16, 18, 19, 25, 26, 27, 28; Use Visuals: 11, 18 TR: All-In-One: Guided Reading: 48-51, 56-59, 66-68; Section Summary: 47, 55, 65; Review and Reinforce: 52, 60, 69; Enrich: 53, 61, 70; Skills Lab: 62-64; Transparency: P1, 2 TECH: Active Art: cgp-6012; www.PHSchool.com: cgd-6011; www.SciLinks.com: scn-1613; Discovery Channel School Video Field Trip: 15; Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text; Discovery Channel School Video/ DVD</p>

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Performance Expectations	
Students are expected to:	
Generate a question that can be answered through scientific investigation. This may involve refining or refocusing a broad and ill-defined question.	<p>From Bacteria to Plants SE/TE: 120 Design Your Own Lab: 120 TR: All-In-One: Design Your Own Lab Worksheet: 232-234 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Animals SE/TE: 155; Design Your Own Lab Worksheet TR: All-In-One: 316-317; Design Your Own Lab: 316-317 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Cells and Heredity SE/TE: 54; Design Your Own Lab Worksheet TR: All-In-One: Design Your Own Lab Worksheet: 123-124 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Human Biology and Health SE/TE: 36, 181; Design Your Own Lab: 181 TR: All-In-One: Design Your Own Lab Worksheet: 82-84, 372-373 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Environmental Science SE/TE: 144; Design Your Own Lab: 144 TR: All-In-One: Design Your Own Lab Worksheet: 270-271 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Inside Earth SE/TE: 167; Design Your Own Lab: 167 TR: All-In-One: Design Your Own Lab Worksheet: 355-356 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Earth's Waters SE/TE: 40; Design Your Own Lab: 40 TR: All-In-One: Design Your Own Lab Worksheet: 86-88 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p>

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(Continued)	<p>(Continued)</p> <p>Weather and Climate SE/TE: 26; Design Your Own Lab; 26 TR: All-In-One: Design Your Own Lab Worksheet: 75-77 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Astronomy SE/TE: 102; Design Your Own Lab: 102 TR: All-In-One: Design Your Own Lab Worksheet: 202-204 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Chemical Building Blocks SE/TE: 81; Design Your Own Lab: 81 TR: All-In-One: Design Your Own Lab Worksheet: 182-184 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>Sound and Light SE/TE: 53; Design Your Own Lab: 53 TR: All-In-One: Design Your Own Lab Worksheet: 132-134 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p>The Nature of Science and Technology SE/TE: 23; Design Your Own Lab: 23 TR: All-In-One: Design Your Own Lab Worksheet: 61-63 TECH: Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following</p> <p>Blackout TG: 20-23, 24-27, 28-31, 32-33, 34-35, 36-42, 43-44 SE: 10, 15, 26, 27, 30, 48</p> <p>Flood TG: 6-7, 8-11, 12-13 SE: 10, 20-21</p>

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<p>Plan and conduct a scientific investigation (e.g., field study, systematic observation, controlled experiment, model, or simulation) that is appropriate for the question being asked. Propose a hypothesis and give a reason for the hypothesis and explain how the planned investigation will test the hypothesis. Work collaboratively with other students to carry out the investigations.</p>	<p>From Bacteria to Plants SE/TE: 36, 38-39, 65, 70, 72-73, 97, 107, 121, 134-135, 164; Applying Skills: 36, 70; Chapter Project: 38-39, 72-73, 134-135; Design Your Own Lab: 121; Section Assessment: 65, 164; Skills Lab: 97 TE only: Teacher Demo: 107 TR: All-In-One: Skills Lab Worksheets: 186-188, 232-234 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Animals SE/TE: 60-61, 152, 154, 155, 163, 164-165; Design Your Own Lab: 155; Section Assessment: 154, 163; Skills Lab: 60-61, 164-165 TE only: Build Inquiry: 152 TR: All-In-One: Skills Lab Worksheets: 135-137, 316-317, 325-327 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Cells and Heredity SE/TE: 32, 40, 55, 82-83, 125, 145; Applying Skills: 40; Discover Activity: 32, 55; Section Assessment: 145; Skills Lab: 82-83 TR: All-In-One: Skills Lab Worksheets: 180-182 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Human Biology and Health SE/TE: 44, 90, 103, 110-111, 126, 133, 138-139, 169, 181, 223, 256-257; Chapter Project: 110-111, 138-139; Design Your Own Lab: 181; Section Assessment: 126, 169; Skills Activity: 143; Skills HandBook: 256-257; Skills Lab: 90, 103, 133 TR: All-In-One: Skills Lab Worksheets: 192-193, 208-209, 264-266, 372-373 TECH: Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Environmental Science SE/TE: 4-5, 31, 32, 38, 40-41, 49, 53, 58, 75, 93, 105, 108, 112, 121, 129, 146, 150, 154, 165; Applying Skills: 38, 112, 154; Chapter Project: 4-5, 40-41; Discover Activity: 32, 58, 146, 165; Figure: 108; Section Assessment: 31, 53, 93, 105, 121, 129; Skills Activity: 39; Skills Lab: 75 TE only: Teach Key Concepts: 150 TR: All-In-One: Lab Worksheets: 144-145 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Inside Earth SE/TE: 18, 22, 36, 68, 70, 73, 82, 124, 127, 130, 144, 160, 162, 164, 170, 182-183; Discover Activity; 18, 82, 124, 130, 164; Figure: 36, 70; Section Assessment: 22, 73; Skills HandBook: 182-183; Target Reading Skills: 68, 144, 160; Think Critically: 170; Writing in Science: 127 TE only: Teach Key Concepts: 162 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Earth's Changing Surface SE/TE: 47, 55, 62, 66, 70-71, 87, 88, 89, 96, 125, 134, 142, 145; Applying Skills: 62; Discover Activity: 66, 96, 134; Section Assessment: 145; Skills Activity: 87; Skills Lab: 47, 70-71 TE only: Teach Key Concepts: 142 TR: All-In-One: Lab Worksheets: 117-119, 171-172 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Earth's Water SE/TE: 18, 28, 3,2 40-41, 52, 67, 84, 85, 90, 101, 108, 170; Applying Skills: 90, 170; Design Your Own Lab: 40-41; Section Assessment: 101; Skills Lab: 18; Target Reading Skills: 28, 32, 84, 108; Try This Activity; 85 TR: All-In-One: Skills Lab Worksheets: 62-63, 86-88 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Weather and Climate SE/TE: 8, 9, 27, 41, 54, 72, 89, 104, 106, 115, 135; Applying Skills: 104; Chapter Project: 106; Discover Activity: 54, 72; Section Assessment: 9, 89, 115; Skills Lab: 41; Target Reading Skills: 135; Try This Activity: 8 TR: All-In-One: Lab Worksheets: 114-116 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Astronomy SE/TE: 12, 16, 30, 102-103; Design Your Own Lab: 102-103; Discover Activity: 16, 30 TR: All-In-One: Design Your Own Lab Worksheets: 202-204 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Chemical Building Blocks SE/TE: 26, 41, 48, 52, 94, 108, 130; Chapter Project: 41; Discover Activity: 48, 108, 130; Figure: 26, 94; Math Analyzing Data: 52 TECH: Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Chemical Interaction SE/TE: 53, 74, 126, 152; Discover Activity: 74, 126; Section Assessment: 53; Think Critically: 152 TECH: Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Motion Force and Energy SE/TE: 16-17, 40-41, 55, 62-63, 70, 74, 81, 89, 96, 116, 122-123, 135, 136-137, 157, 164, 165, 167, 175, 188- 189, 195, 202; At Home Activity: 135; Consumer Lab: 40-41; Discover Activity: 55, 74, 195; Design Your Own Lab: 81; Skills Lab: 16-17, 62-63, 88-89, 122-123, 136-137, 156-157, 164-165, 188-189; Try This Activity: 96, 116 TR: All-In-One: Lab Worksheets: 109-112, 52-54, 133-135, 192-194, 253-256, 266-268, 313-315, 323-326, 381-383 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Electricity and Magnetism SE/TE: 10, 12-13, 51, 67,71, 94, 113; Discover Activity: 67, 71, 94; Section Assessment: 51; Skills Lab: 12-13; Technology Lab: 113 TE only: Differentiated Instruction: 10 TR: All-In-One: Lab Worksheets: 52-55, 257-259 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>Sound and Light SE/TE: Chapter Project: 105; Design Your Own Lab: 53; Discover Activity: 17, 84, 125; Figure: 12 TE only: Skills Activity: 109; Skills Lab: 16 TR: All-In-One: Lab Worksheets: 59-60 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p>The Nature of Science and Technology SE/TE: 5, 13, 14, 15, 19, 22, 23, 25, 32, 40; Chapter Project: 5; Design Your Own Lab: 23; Figure: 19, 25, 32 TE only: Differentiated Instruction: 15; Monitor Progress: 15; Teach Key Concepts: 14, 15 TR: All-In-One: Lab Worksheets: 61-63 TECH: Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Blight! SE: 10, 11, 19, 27, 28, 35, 36 TG: 6, 7, 9, 10, 11, 12</p> <p>Earthquake! SE: 34 TG: 13</p> <p>Flood! SE: 20, 21, 48, 49 TG: 9, 6, 17</p> <p>Fraud! SE: 21, 22, 25, 28, 29, 32 TG: 10, 11, 13</p> <p>Global Warming? SE: 8 TG: 7</p>

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(continued)	<p>(continued)</p> <p>Gold Rush! SE: 20, 21 TG: 9, 11</p> <p>Hurricane! SE: 37</p> <p>Oil Spill! SE: 14, 39, 44 TG: 7</p> <p>Outbreak! TG: 38</p> <p>Tornado! SE: 52 TG: 23</p>
<p>Communicate results using pictures, tables, charts, diagrams, graphic displays, and text that are clear, accurate, and informative. *a Recognize and interpret patterns – as well as variations from previously learned or observed patterns – in data, diagrams, symbols, and words.*a Use statistical procedures (e.g., median, mean, or mode) to analyze data and make inferences about relationships.</p>	<p>The Nature of Science and Technology SE/TE: 68-75; Key Terms: 68; Target Reading Skills: 68 At Home Activity; 75; Discover Activity: 68; Math Analyzing Data: 73; Skills Lab: 76 TE only: Address Misconceptions: 42H, 71; Content Refresher: 68H; Differentiated Instruction: 69; Monitor Progress: 69, 71, 73, 74; Performance Assessment: 75; Teach Key Concepts: 69, 72, 74; Use Visuals; 70, 74 TR: All-In-One: Guided Reading: 132-135; Section Summary: 131; Review and Reinforce: 136; Enrich: 137; Skills Lab Worksheets: 138-139; Transparency: P22-25 TECH: www.PHSchool.com: cgp-6023; Lab Activity Video/ DVD; Lab Zone CD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Asteroid! SE: 10, 51, 52, 53 TG: 22, 23, 24, 25</p> <p>Blackout! SE: 50, 51 TG: 22, 23</p> <p>Blight! SE: 11, 19, 27, 28, 36 TG: 7, 9</p>

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(continued)	<p>(continued)</p> <p>Earthquake! SE: 40</p> <p>First Flight! SE: 9, 21 TG: 12, 13</p> <p>Flood! SE: 20, 21 TG: 9</p> <p>Fraud! SE: 12, 25</p> <p>Global Warming? SE: 8</p> <p>Gold Rush! SE: 46 TG: 23</p>
Plan and conduct a controlled experiment to test a hypothesis about a relationship between two variables. *c Determine which variables should be kept the same (controlled), which (independent) variable should be systematically manipulated, and which responding (dependent) variable is to be measured and recorded. Report any variables not controlled and explain how they might affect results.	<p>The Nature of Science and Technology SE: 5-12, 13-23; Key Terms: 6, 13; Target Reading Skills: 6, 13; At Home Activity: 12; Chapter Project: 5; Design Your Own Lab: 23; Discover Activity: 6, 13; Discovery Channel School Video Preview: 5; Discovery Channel School Video Field Trip: 15; Math Analyzing Data: 9; Skills Activity: 14, 16; Address Misconceptions: 8; Try This Activity: 19</p> <p>TE only: Differentiated Instruction: 7, 10, 15, 17; Monitor Progress: 7, 9, 11, 15, 17, 19, 21, 22; Performance Assessment: 5, 12, 22; Teach Key Concepts: 7, 8, 9, 10, 11, 12, 14, 15, 16, 18, 19, 21; Teacher Demo: 17; Build Inquiry: 10;; Use Visuals: 11, 18, 20</p> <p>TR: All-In-One: Guided Reading and Study Worksheet: 7, 14; Section Summary; 12, 22; Review and Reinforce: 12, 22; Enrich: 12, 22; Reading Strategy Transparency: P1; Guided Reading: 47-50, 55-58; Section Summary: 46, 54; Review and Reinforce: 51, 59; Enrich: 52, 60</p> <p>TECH: www.PHSchool: cgd-6011; Active Art: cgp-6012; Discovery Channel School Video/DVD; Presentation Express: Teacher Express; Online Text; Student Edition Audio CD</p>

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(continued)	<p>(continued) <u>EVENT-BASED SCIENCE</u> Asteroid! SE: 10, 50, 51</p> <p>Fire! SE: 59 TG: 21</p> <p>Global Warming? SE: 41, 42 TG: 13, 15, 16</p>
Create a model or simulation to represent the behavior of objects, events, systems, or processes. Use the model to explore the relationship between two variables and point out how the model or simulation is similar to or different from the actual phenomenon.	<p>From Bacteria to Plants SE/TE: 4, 32, 42, 47, 78, 80, 92, 102-103, 139, 143, 153, 158-159, 161; Chapter Project: 4-5, 102-103; Skills Lab: 47, 158-159; Try This Activity: 92 TE only: Build Inquiry: 32, 42, 78, 80, 139, 153; Differentiated Instruction: 143, 161 TR: All-In-One: Skills Lab Worksheet: 115-116, 302-304 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Animals SE/TE: 9, 17, 20, 44, 78-79, 93, 97, 110, 121, 130, 168; Chapter Project: 78-79; Skills Lab: 93; Try This Activity: 9, 97, 130 TE only: Build Inquiry: 17, 20, 110, 121, 168; Teacher Demo: 44 TR: All-In-One: Skills Lab Worksheet: 197-198 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 18, 19, 27, 28, 36, 56, 58, 59, 61, 74-75, 90-91, 92, 93, 95, 99, 101, 102, 108-109, 114, 119, 127, 136-137, 146-147, 151, 157, 159; Chapter Project: 74-75, 108-109, 136-137; Skills Lab: 90-91, 146-147; Try This Activity: 18, 56 TE only: Build Inquiry: 58, 59, 61, 95, 99, 101, 114, 127, 159; Differentiated Instruction: 19, 27, 36, 93, 157; Teach Key Concept: 102, 151; Teacher Demo: 28 TR: All-In-One: Skills Lab Worksheet: 190-192, 300-302 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Human Biology and Health SE/TE: 4-5, 7, 23, 46, 63, 70, 76-77, 81, 93, 94, 114, 115, 121, 125, 129, 130, 147, 148, 152-153, 157, 161, 164-165, 185, 194, 197, 198, 214-215, 218, 220, 235; Chapter Project: 4-5, 76-77, 214-215; Skills Lab: 152-153, 164-165; Try This Activity: 7, 63, 94, 148, 235 TE only: Build Inquiry: 23, 115, 157, 185, 197, 198; Differentiated Instruction: 81, 93, 147; Teach Key Concepts: 46, 130, 161; Teacher Demo: 129, 194; Use Visual: 114 TR: All-In-One: Skills Lab Worksheet: 310-311, 326-327 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Environmental Science SE/TE: 12, 19, 40-41, 44, 61, 63, 68-69, 91, 97, 114-115, 120, 12, 135, 136, 148; Chapter Project: 40-41, 114-115; Skills Lab: 12, 68-69 Try This Activity: 19, 44, 136 TE only: Build Inquiry: 61, 63, 91, 135, 148; Teacher Demo: 97, 120, 124 TR: All-In-One: Skills Lab Worksheet: 53-54, 134-136 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD</p> <p>Inside Earth SE/TE: 4-5, 20, 27, 30-31, 33, 36-37, 40, 43, 48, 49, 50, 63, 66-67, 71, 85, 90, 94, 99, 101, 106-107, 113, 140, 159, 161, 179; At Home: 50, 90; Chapter Project: 4-5, 40, 43, 113, 140; Skills HandBook: 179; Skills Lab: 30-31, 37, 106-107 TE only: Build Inquiry: 20, 63, 101; Performance Assessment: 159; Teach Key Concepts: 98; Teacher Demo: 33, 49 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Earth's Changing Surface SE/TE: 5, 14, 26, 31, 45, 65, 67, 68, 80, 81, 82-83, 94, 103, 109, 112, 113, 119, 120, 124, 127, 130, 146-147; At Home: 45, 81, 103; Chapter Project: 5, 65, 109; Discover Activity: 26, 127, 130; Try This Activity: 119; Skills Activity: 67; Skills Lab: 31, 82-83, 146-147 TE only: Build Inquiry: 113, 120, 124; Teacher Demo: 14, 68, 80, 94, 112 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Earth's Waters SE/TE: 7, 24, 25, 32, 37, 38, 46-47, 51, 56, 61, 73, 74, 81, 82, 85, 92-93, 99, 100, 101, 114-115, 122, 123, 129, 132, 135, 142, 152, 164, 165; At Home: 101, 164; Chapter Project: 46-47, 92-93, 129; Technology Lab: 114-115; Skills Activity: 61, 99; Skills Lab: 56, 122-123, 165 TE only: Build Inquiry: 25, 37, 73, 82, 100, 132, 136, 152; Help Students Read: 24; Teach Key Concepts: 7, 85; Teach Demo: 32, 38, 74, 81 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Weather and Climate SE/TE: 14, 34-35, 44, 46, 49, 51, 77, 78, 95, 104, 117, 132; Applying Skills: 104; At Home: 14; Chapter Project: 34-35; Skills Lab: 117 TE only: Build Inquiry: 44, 78, 95, 132; Differentiated Instruction: 51; Teacher Demo: 49, 77 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Astronomy SE/TE: 6, 8, 11, 12, 14-15, 19, 24, 25, 26, 28-29, 71, 74, 90, 98, 122, 127, 129, 141, 150; Chapter Project: 71; Discover Activity: 6, 141; Figure: 150; Skills Activity: 24, 98; Skills Lab: 14-15, 28-29; 12, 74, 90 TE only: Differentiated Instruction: 11, 25, 127; Teacher Demo: 8, 19, 26, 122 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Chemical Building Blocks SE/TE: 11, 26, 34-35, 44, 46, 56, 58, 76, 78, 79, 94, 110, 119, 140, 143; At Home: 79; Skills Lab: 34-35 TE only: Build Inquiry: 11, 56, 76, 94, 110, 140; Differentiated Instruction: 26, 44, 58, 119; Monitor Progress: 143; Teach Key Concepts: 78; Teacher Demo: 46 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Chemical Interactions SE/TE: 5, 9, 21, 23, 45, 56, 58, 62, 67, 87, 118, 123, 124, 128, 130; Applying Skills: 118; Chapter Project: 5, 45; Discover Activity: 56; Figure: 62, 67; Skills Lab: 21; Try This Activity: 58 TE only: Build Inquiry: 124, 128, 130; Differentiated Instruction: 9, 23, 87, 123 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Motion Force and Energy SE/TE: 7, 19, 20, 35, 38, 60, 73, 92, 126, 127, 129, 145, 161, 182; Chapter Project: 35, 73, 145; Technology Lab: 182; Try This Activity: 127 TE only: Build Inquiry: 20, 38, 129, 161; Differentiated Instruction: 7, 19 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Electricity and Magnetism SE/TE: 16, 36, 49, 50, 76, 82, 110, 130-131; Applying Skills: 76; Skills Lab: 130-131 TE only: Build Inquiry: 16, 49, 82; Teacher Demo: 36, 50, 110 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Sound and Light SE/TE: 24-25, 27, 32, 44, 46, 72, 79, 90, 93, 94-97, 00, 116; Discover Activity: 90; Skills Lab: 24-25, 97-99 TE only: Think Critically: 32; Build Inquiry: 44, 72, 79, 93; Teacher Demo: 46, 94, 116 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>The Nature of Science and Technology SE/TE: 11, 43, 87, 106-107; Chapter Project: 43, 87; Technology Lab: 106-107 TE only: Use Visuals: 11 TR: All-In-One: Skills Lab Worksheet TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Asteroid! SE: 7, 8, 10, 42, 43, 50, 51 TG: 6, 7, 14, 15, 16, 18, 19, 20, 21, 22, 23</p> <p>Blackout! SE: 10, 11, 14, 15, 17 TG: 20, 21, 22, 23, 24, 25, 30, 32, 33, 34, 35</p> <p>Earthquake! SE: 23, 29, 34, 41 TG: 9, 11, 13, 17</p> <p>Fire! SE: 27, 40, 41, 59 TG: 15, 17, 18, 21</p> <p>First Flight! SE: 8, 9, 16, 21 TG: 4, 5, 6, 7, 9, 12</p>

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(continued)	(continued) Global Warming? SE: 8 TG: 7 Gold Rush! SE: 20, 21, 28, 37, 51 TG: 9, 11, 13, 15, 17, 18, 19, 20, 27 Hurricane! SE: 37 Oil Spill! SE: 38 TG: 15, 16 Outbreak! SE: 5 TG: 15 Thrill Ride! SE: 11, 21, 22, 28, 29, 33, 38, 39 TG: 5, 10, 12, 13, 14, 15, 16, 18, 19, 20, 21 Tornado! SE: 7, 12, 13, 19, 20, 41 TG: 12, 13, 17, 18, 19 Toxic Spill! SE: 16 TG: 9 Volcano! SE: 5, 14, 27, 49 TG: 7, 8, 9, 10, 11, 18, 19

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<p>Generate a scientific conclusion from an investigation, using inferential logic, and clearly distinguish between results (i.e., evidence) and conclusions (e.g., explanation). Describe the differences between an objective summary of the findings and an inference made from the findings.</p>	<p>From Bacteria to Plants SE/TE: 15, 19, 37, 38-39, 53, 94, 97, 100, 106, 132, 148, 163, 172; Applying Skills: 100, 132, 172; Chapter Project: 38-39; Math Analyzing Data: 19, 53, 94, 106, 163; Writing in Science: 15, 97 TE only: Technology and Society: 74-75; Writing in Science: 65, 105, 109, 127, 139, 147, 156, 166; Build Inquiry: 148 TR: All-In-One TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD Animals SE/TE: 33, 46, 51, 53, 76, 84-85, 114, 116-117, 126–127, 144, 146-147, 153; Applying Skills: 76, 114, 144; Chapter Project: 116-117, 146-147; Math Analyzing Data: 53, 153; Skills Lab: 33, 46, 84-85, 126-127 TR: All-In-One: Lab Worksheet: 76-78 Cells and Heredity SE/TE: 29, 31, 60, 63, 72, 73, 82-83, 86, 90-91, 122, 134, 154, 158, 166; Applying Skills: 72, 134, 166; Consumer Lab: 31; Math Analyzing Data: 29, 60, 158; Skills Lab: 63, 82-83, 90-91, 122, 154; Standardized Test Prep: 73; Try This Activity: 86 TR: All-In-One: Lab Worksheet: 133-134, 180-182, 190-192, 250-251, 309-310 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD Human Biology and Health SE/TE: 34, 36-37, 42-43, 51, 52, 66-67, 74, 75, 82, 90, 95, 103, 108, 109, 113, 132-133, 137, 152-154, 164-165, 172, 173, 174-175, 196, 203, 204, 208-209, 230, 234, 257; Applying Skills: 74, 109, 136, 172; Chapter Project: 42-43, 174-175; Consumer Lab: 208-209; Design Your Own Lab: 36-37; Figure: 52, 95, 234; Math Analyzing Data: 34, 113, 196, 230; Skills HandBook: 257; Skills Lab: 66-67, 90, 103, 132-133, 152-154, 164-165; Standardized Test Prep: 75, 137, 173 TE only: Build Inquiry: 51, 82; Differentiated Instruction: 204 TR: All-In-One: Lab Worksheet: 138-140, 192-193, 208-209, 264-266, 310-311, 326-328, 397-399 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD</p>

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(Continued)	<p>(Continued)</p> <p>Environmental Science SE/TE: 21, 27, 38, 40-41, 67, 94, 103, 112, 144-145, 149, 154, 156-157, 163, 188; Applying Skills: 38, 112, 154, 188; Chapter Project: 40-41, 156-157; Design Your Own Lab: 144-145; Math Analyzing Data: 27, 67, 103, 149, 163; Skills Lab: 21, 94 TR: All-In-One: Lab Worksheet: 61-63, 192-193, 270-271 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD</p> <p>Inside Earth SE/TE: 4, 12, 58-59, 79, 86, 120, 121, 123, 131, 136-137, 140, 167, 183; Applying Skills: 140; Consumer Lab: 136-137; Design Your Own Lab: 167; Figure: 120; Math Analyzing Data: 4; Skills HandBook: 183; Standardized Test Prep: 79; Writing in Science: 58-59, 86, 123, 131 TR: All-In-One: Lab Worksheet: 73-76, 275-276</p> <p>Earth's Changing Surface SE/TE: 29, 47, 70-71, 89, 122, 144; Math Analyzing Data: 89; Skills Activity: 29; Try This Activity: 144; Writing in Science: 47, 70-71, 122 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD</p> <p>Earth's Waters SE/TE: 4, 36, 44, 54, 58, 92, 104, 106, 128, 162; Applying Skills: 44; Chapter Project: 4, 92, 128; Figure: 58; Math Analyzing Data: 36, 54, 106, 162 TE only: Build Inquiry: 104 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD</p> <p>Weather and Climate SE/TE: 4-5, 7, 15, 20,27, 41, 44, 53, 56, 70, 91,95, 97, 104, 117, 133; Applying Skills: 104; Chapter Project: 4-5, 70; Design Your Own Lab: 27; Math Analyzing Data: 20, 56, 95, 133; Skills Lab: 15, 41, 91, 117; Technology Lab: 53; Try This Activity: 44; Build Inquiry: 97 TR: All-In-One: Lab Worksheet: 59-60, 75-77, 114-116, 131-132, 194-196, 204-205 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD</p>

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(Continued)	(Continued) Electricity and Magnetism SE/TE: 20-21, 52-53, 121; Technology Lab: 20-21, 52-53 Teach Key Concepts: 121 TR: All-In-One: Lab Worksheet: 64-67, 124-125 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD Sound and Light SE/TE: 5,16, 29, 39, 44, 66, 69, 88-89, 92, 102, 120, 124; Applying Skills: 66, 102; Chapter Project: 5, 69; Consumer Lab: 88-89; Figure: 44; Math Analyzing Data: 39, 92, 120; Section Assessment: 29; Skills Lab: 16, 124 TR: All-In-One: Lab Worksheet: 59-60, 202-203, 268-270 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD The Nature of Science and Technology SE/TE: 5, 18, 67, 73, 76, 84, 111, 120; Applying Skills: 84, 120; Chapter Project: 5; Math Analyzing Data: 73, 111; Section Assessment: 67; Writing in Science: 76 TECH: On-line Textbook; Student Edition CD; Teacher Edition CD; Presentation Express CD; Lab Zone CD; Lab Activity CD <u>EVENT-BASED SCIENCE</u> Blackout! SE: 48, 49, 52 TG: 36, 37, 38, 43, 44 Blight! SE: 36 Earthquake! SE: 23 Global Warming? SE: 42 TG: 15, 16

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<p>Prepare a written report of an investigation by clearly describing the question being investigated, what was done, and an objective summary of results. The report should provide evidence to accept or reject the hypothesis, explain the relationship between two or more variables, and identify limitations of the investigation.</p>	<p>From Bacteria to Plants SE/TE: 13, 15, 53, 59, 70, 72-73, 93, 97, 115, 120-121, 164, 168-169; Applying Skills: 70; At Home: 164; Chapter Project: 72-73; Consumer Lab: 59; Design Your Own Lab: 120-121; Skills Activity: 13; Writing in Science: 15, 97; Build Inquiry: 53, 115; Differentiated Instruction: 93 TR: All-In-One: Lab Worksheets: 124-126, 232-234 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Animals SE/TE: 18, 33, 38-39, 46, 60-61, 93, 127, 141, 152, 155, 165; Consumer Lab: 18, 141; Design Your Own Lab: 155; Skills Lab: 33, 46, 60-61, 93, 127, 165; Build Inquiry: 152 TR: All-In-One: Lab Worksheets: 66-67, 76-78, 119-120, 135-137, 197-198, 258-260, 325-327 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Cells and Heredity SE/TE: 31, 42-43, 54, 63, 82-83, 113, 144, 147; Chapter Project: 42-43; Consumer Lab: 31; Design Your Own Lab: 54; Skills Lab: 63, 82-83, 147; Try This Activity: 113; Build Inquiry: 144 TR: All-In-One: Lab Worksheets: 70-71, 123-124, 133-134, 180-182, 300-302 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Human Biology and Health SE/TE: 29, 37, 54, 67, 153-154, 174-175, 181, 199, 209, 223, 241, 257; Chapter Project: 174-175; Consumer Lab: 54, 209; Design Your Own Lab: 37, 181; Skills Activity: 199; Skills HandBook: 257; Technology Lab: 223; Writing in Science: 29, 67, 153-154, 241 TR: All-In-One: Lab Worksheets: 123-124, 372-373, 397-399, 436-437 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Environmental Science SE/TE: 12, 41, 69, 75, 94, 131, 143, 144-145, 183; Chapter Project: 41; Consumer Lab: 183; Design Your Own Lab: 144-145; Skills Lab: 12, 69, 75, 94, 131 TR: All-In-One: Lab Worksheets: 53-54, 134-136, 192-193, 253-254 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p>

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(Continued)	<p>(Continued)</p> <p>Inside Earth SE/TE: 22, 66, 90, 123, 135, 137, 167, 183; At Home: 22, 90, 135; Design Your Own Lab: 167; Skills HandBook: 183; Skills Lab: 123; Technology Lab: 66 TR: All-In-One: Lab Worksheets: 144-145, 257, 355-356 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Earth' Changing Surface SE/TE: 37, 47, 55, 62, 65, 71, 83, 87; Applying Skills: 62; Chapter Project: 37, 65; Consumer Lab: 55; Skills Activity: 87; Skills Lab: 47, 71, 83 TR: All-In-One: Lab Worksheets: 117-119, 128-129, 181-183 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Earth's Water SE/TE: 5, 27, 33, 40-41, 47, 55, 56, 90, 114-115, 123, 147; Applying Skills: 90, 123; At Home: 27, 33, 55; Chapter Project: 5, 47; Design Your Own Lab: 40-41; Skills Lab: 56; Technology Lab: 114-115; Differentiated Instruction: 147 TR: All-In-One: Lab Worksheets: 86-88, 126-127, 213-215 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Weather and Climate SE/TE: 27, 41, 117; Design Your Own Lab: 27; Skills Lab: 41, 117 TR: All-In-One: Lab Worksheets: 75-77, 114-116 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Astronomy SE/TE: 12, 47, 62, 102-103; Design Your Own Lab: 102-103; Section Assessment: 62; Technology Lab: 47; Build Inquiry: 12 TR: All-In-One: Lab Worksheets: 116-117 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Chemical Building Block SE/TE: 35, 54, 66-67, 73, 117, 144; Chapter Project: 73, 117; Writing in Science: 35, 54, 66-67 TE: Build Inquiry: 114 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p>

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<p>Recognize flaws in scientific claims, such as uncontrolled variables, overgeneralizations from limited data, and experimenter bias. Listen actively and respectfully to research reports by other students. Critique their presentations respectfully, using logical argument and evidence. Engage in reflection and self-evaluation.</p>	<p>The Nature of Science and Technology SE/TE: 13-23; Discover Activity: 13;; Key Terms: 13; Skills Activity: 14, 16, 14, 16;; Skills Lab: 23; Target Reading Skills: 13; Try This Activity: 19; Skills HandBook: 128-129, 132-133, 134-135; Math Analyzing Data: 9; Discovery Channel School Video Field Trip: 15 TE only: Differentiated Instruction: 15, 17; Monitor Progress: 15, 17, 19, 21, 22; Performance Assessment: 22; Teacher Demo Lab: 17; Teach Key Concept: 14, 15, 16, 18, 19; Use Visuals: 18 TR: All-In-One: Guided Reading: 56-59; Section Summary: 55; Review and Reinforce: 60; Enrich: 61; Skills Lab: 62-64; Transparency: P1, 2 TECH: Active Art: cgp-6012; www.PHSchool.com: www.SciLinks.com; Student Edition on Audio CD; Teacher Express CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text; Discovery Channel School Video/ DVD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Asteroid! SE: 52</p> <p>Earthquake! SE: 20</p> <p>First Flight! SE: 12, 18, 19, 28</p> <p>Fraud! SE: 24</p>

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<p>Demonstrate ethical concerns and precautions in response to scenarios of scientific investigations involving animal experiments, research in natural ecosystems, and studies that involve human subjects.</p>	<p>From Bacteria to Plants SE/TE: 66; Science and Society: 66 TE only: Background: 66 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text</p> <p>Animals SE/TE: 24; Science and Society: 24 TE only: Background: 25 TECH: Online: PHSchool.com: 25; Student Edition on Audio CD; Teacher Express CD; Online Text</p> <p>Cells and Heredity SE/TE: 68; Science and Society: 68 TE only: Background: 68 TECH: Online: PHSchool.com: 69; Student Edition on Audio CD; Teacher Express CD; Online Text</p> <p>Human Biology and Health SE/TE: 190; Science and Society: 190 TE only: Background: 190 TECH: 191; PHSchool.com: 191; Student Edition on Audio CD; Teacher Express CD; Online Text</p> <p>Environmental Science SE/TE: 22; Science and Society: 22 TE only: Background: 23 TECH: PHSchool.com: 23; Student Edition on Audio CD; Teacher Express CD; Online Text</p> <p>Inside Earth SE/TE: 128; Science and Society: 128 TE only: Background: 129 TECH: PHSchool.com: 129; Student Edition on Audio CD; Teacher Express CD; Online Text</p> <p>Earth's Changing Surface SE/TE: 84; Science and Society: 84 TE only: Background: 84 TECH: PHSchool.com: 85; Student Edition on Audio CD; Teacher Express CD; Online Text</p> <p>Earth's Waters SE/TE: 166; Science and Society: 166 TECH: PHSchool.com: 167; Student Edition on Audio CD; Teacher Express CD; Online Text</p> <p>Weather and Climate SE/TE: 28; Science and Society: 28 TE only: Background: 28 TECH: PHSchool.com: 29; Student Edition on Audio CD; Teacher Express CD; Online Text</p>

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EALR 3: Application (APP)	
Core Content: Science, Technology, and Solving Problems	
<p>In prior grades, students learned to work individually and collaboratively to produce a product of their own design. In grades 6-8, students work with other members of a team to apply the full process of technological design, combined with relevant science concepts, to solve problems. In doing so, they learn to define a problem, conduct research on how others have solved similar problems, generate possible solutions, test the design, communicate the results. Students also investigate professions in which science and technology are required, so they can learn how the abilities they are developing in schools are valued in the world of work.</p>	
Content Standards	
Students know that:	
<p>6-8 APPA - People have always used technology to solve problems. Advances in human civilization are linked to advances in technology.</p>	<p>From Bacteria to Plants SE/TE: 54-55; Science and History: 54-55 TE only: Background: 54; Teach Key Concepts: 54; Build Inquiry: 54; Monitor Progress: 55 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Animals SE/TE: 64-65; Tech and Design in History: 64-65; Reading Checkpoint TE only: Differentiated Instruction: 100; Writing in Science: 65; Monitor Progress: 65 TECH: SciLinks.org: scn-0224; Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Cells and Heredity SE/TE: 8-9; Tech and Design in History: 8-9; Writing in Science: 9; Reading Checkpoint: 9 TE only: Teach Key Concepts: 8; Build Inquiry: 8; Background: 8; Differentiated Instruction: 9; Monitor Progress: 9 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Human Biology and Health SE/TE: 100-101; Tech and Design in History: 100-101 TE only: Background: 101; Differentiated Instruction: 100; Build Inquiry: 100; Writing in Science: 101 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p>

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(Continued)	(Continued) Environmental Science SE/TE: 180-181; Tech and Design in History:180-181; Writing in Science: 181; Reading Checkpoint: 181 TE only: Background: 180; Differentiated Instruction: 181; Monitor Progress: 181; Help Students Read: 181 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD Inside Earth SE/TE: 132-133; Tech and Design in History: 132-133; Writing in Science: 133 TE only: Teach Key Concepts: 132; Teacher Demo: 132; Differentiated Instruction: 133; Integrating Environmental Science: 133; Monitor Progress: 133 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD Earth's Changing Surface SE/TE: 14-15; Science and History: 14-15; Writing in Science: 15; Reading Checkpoint: 15 TE only: Background: 14; Differentiated Instruction: 15; Use Visuals: 14; Teacher Demo: 14; Address Misconceptions: 15; Monitor Progress: 15 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD Earth's Waters SE/TE: 50-51; Tech and Design in History: 50-51; Writing in Science: 51; Reading Checkpoint: 51 TE only: Help Students Read: 50; Differentiated Instruction: 51; Monitor Progress: 51; Build Inquiry: 51 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD Weather and Climate SE/TE: 18-19; Science and History: 18-19; Writing in Science: 19; Reading Checkpoint: 19 TE only: Differentiated Instruction: 18; Use Visuals: 14; Teach Key Concept: 18, 19; Address Misconceptions: 19; Monitor Progress: 19; Build Inquiry: 18 TECH: Planet Diary: PHSchool.com: cfd: 4013; Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD

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(Continued)	<p>(Continued)</p> <p>Astronomy SE/TE: 122-123; Tech and Design in History:122-123; Writing in Science: 123 TE only: Background: 122; Differentiated Instruction: 123; Monitor Progress; 123; Help Students Read: 123; Teacher Demo: 122; Teach Key Concepts: 122 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Chemical Building Blocks SE/TE: 122-123; Tech and Design in History: 122-123; Writing in Science: 123; Reading Checkpoint: 127 TE only: Address Misconceptions: 123; Background: 123; Monitor Progress: 123 TECH: Discovery Channel School Video Field Trip: 122; Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Chemical Interaction SE/TE: 138-139; Tech and Design in History: 138-139; Writing in Science: 123; Reading Checkpoint: 139 TE only: Background: 139; Monitor Progress: 139; Teacher Demo: 139 TECH: Discovery Channel School Video Field Trip: 138; Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Electricity and Magnetism SE/TE: 126-127; Tech and Design in History: 126; Writing in Science: 127; Reading Checkpoint: 127 TE only: Teacher Demo: 127; Monitor Progress: 127 TECH: SciLinks.org: scn-1443; Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Sound and Light SE/TE: 134; Tech and Design in History: 134; Discovery Channel School Video Field Trip: 134; Reading checkpoint: 135 TE only: Background: 134-135; Help Students Read: 134 Teacher Demo: 134; Monitor Progress: 135 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p>

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(Continued)	<p>(Continued)</p> <p>The Nature of Science and Technology SE/TE: 112-113; Tech and Design in History: 112-113; Reading Checkpoint: 112; Writing in Science: 113 TE only: Background: 112; Differentiated Instruction: 113; Teach Key Concepts: 112; Monitor Progress: 113 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Asteroid! SE: 26, 28, 34, 35</p> <p>Blackout! SE: 47, 50, 54, 58, 61, 62</p> <p>Blight! SE: 46</p> <p>Earthquake! SE: 25, 30, 38</p> <p>Fire! SE: 15 TG: 12</p> <p>First Flight! SE: 49</p> <p>Flood! SE: 32, 33</p> <p>Gold Rush! SE: 33, 48, 49, 50</p> <p>Hurricane! SE: 41</p> <p>Oil Spill! SE: 42</p> <p>Tornado! SE: 15, 16</p> <p>TECH: Blackout!; First Flight!; The Awesome Power; Give Me the Tides, Give Me the Currents; Alabama Tornado/Belated Early Warning</p>

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<p>6-8 APPB - Scientists and technological designers (including engineers) have different goals. Scientists answer questions about the natural world; technological designers solve problems that help people reach their goals.</p>	<p>From Bacteria to Plants SE/TE: x-3: Careers in Science: Disease Detective Solves Mystery: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Animals SE/TE: x-3: Careers in Science: An Alligator's Sensitive Side: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Cells and Heredity SE/TE: x-3: Careers in Science: An Unfolding Mystery: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Human Biology and Health SE/TE: x-3: Careers in Science: A Steely Athletic Trainer: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Environmental Science SE/TE: x-3: Careers in Science: Treetop Scientist: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Inside Earth SE/TE: x-3: Careers in Science: Dancing with Volcanoes: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Earth's Changing Surface SE/TE: x-3: Careers in Science: Fossils Reveal Dinosaur Diet: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p>

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(Continued)	<p>(Continued)</p> <p>Earth's Waters SE/TE: x-3: Careers in Science: Through the Lens of an Ocean Scientist: x-3, Writing in Science: 3 TE only: Background x, 1, 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Weather and Climate SE/TE: x-3: Careers in Science: Eyes in the Sky: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Astronomy SE/TE: x-3: Careers in Science: A Solar Astronomer: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Chemical Building Blocks SE/TE: x-3: Careers in Science: From Plants to Chemicals: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Chemical Interaction SE/TE: x-3: Careers in Science: Fossils Reveal Dinosaur Diet: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 1 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Motion Force and Energy SE/TE: xii-3: Careers in Science: Understanding Nature's Design: xii-3, Writing in Science: 3 TE only: Background xii, 1, 2; Use Visuals: 1</p> <p>Electricity and Magnetism SE/TE: x-3: Careers in Science: When Illusion is Better: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p>

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(Continued)	(Continued) Sound and Light SE/TE: x-3: Careers in Science: Turning Down the Volume: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD The Nature of Science and Technology SE/TE: x-3: Careers in Science: Super Inventor: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD <u>EVENT-BASED SCIENCE</u> Blight! SE: 46 Earthquake! SE: 30 First Flight! SE: 28, 41 Gold Rush! SE: 33, 48 Survive? SE: 32, 33

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<p>6-8 APPC - Science and technology are interdependent. Science drives technology by demanding better instruments and suggesting ideas for new designs. Technology drives science by providing instruments and research methods.</p>	<p>From Bacteria to Plants SE/TE: 174-179; Interdisciplinary Exploration: 174-179; Language Arts Activity: 179; Math Activity: 177; Science Activity: 176; Social Studies Activity: 175 TE only: Background: 175, 176, 178; Explore Language Arts Concepts: 178; Explore Math Concepts: 177; Explore Science Concepts: 176; Explore Social Studies Concepts: 175; Tie It Together: 179 TR: All-In-One: Science: 174; All-In-One: Social Studies: 174; All-In-One: Language Arts: 174; All-In-One: Mathematics: 174 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Animals SE/TE: 174-181; Interdisciplinary Exploration: 174-181; Language Arts Activity: 178; Math Activity: 180; Science Activity: 175; Social Studies Activity: 176 TE only: Background: 175, 177, 179; Explore Language Arts Concepts: 178; Explore Math Concepts: 180; Explore Science Concepts: 175; Explore Social Studies Concepts: 177; Tie It Together: 181 TR: All-In-One: Science: 174; All-In-One: Social Studies: 174; All-In-One: Language Arts: 174; All-In-One: Mathematics: 174 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Cells and Heredity SE/TE: 168-173; Interdisciplinary Exploration: 168-173; Language Arts Activity: 172; Math Activity: 173; Science Activity: 169; Social Studies Activity: 170-171 TE only: Background: 169, 171; Explore Language Arts Concepts: 172; Explore Math Concepts: 173; Explore Science Concepts: 169; Explore Social Studies Concepts: 170; Tie It Together: 173 TR: All-In-One: Science: 168; All-In-One: Social Studies: 168; All-In-One: Language Arts: 168; All-In-One: Mathematics: 168 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p>

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<p>6-8 APPD - The process of technological design begins by defining a problem, identifying criteria for a successful solution, followed by research to better understand the problem, and brainstorming potential solutions.</p>	<p>The Nature of Science and Technology SE/TE: 86- 87, 97-107; Key Terms: 86, 97; Target Reading Skills: 86, 97; Discover Activity: 86, 97; At Home Activity: 95; Skills Activity: 90; Try This Activity: 93, 101; Skills Lab: 96; Technology Lab: 106-107; Teacher Demo: 98; Section Assessment: 95, 105; Writing in Science: 105 TE only: Differentiated Instruction: 89, 92, 98, 103; Teach Key Concept: 89, 91, 92, 94, 98, 99, 100, 102, 103, 104; Monitor Progress: 89, 91, 93, 99, 101, 103; Build Inquiry: 92, 101; Misconceptions: 86F, 90; Use Visuals: 90, 94; Help Students Read: 93, 100; Reviewing Key Concepts: 95, 105; Reteach: 95, 105; Performance Assessment: 87, 95, 105 TR: All-In-One: Reading Strategy Transparency: P30, 33; Guided Reading: 179-182, 190-193; Section Summary: 178, 189; Review and Reinforce: 183, 194; Enrich: 184, 195; Skills Lab Workshop: 185-187; Technology Lab Workshop: 196-198 TECH: NSTA PDLinks: scf-1630; PHSchool.com: scn-1631, cgp-6032; Discovery Channel School Video Preview: 87; Discovery Channel School Video Field Trip: 102; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Fire! SE: 15 TG: 12, 41, 47</p> <p>Gold Rush! SE: 33, 48</p> <p>TECH: Blackout!; The Awesome Power; Give Me the Tides, Give Me the Currents</p>

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<p>6-8 APPE - Scientists and engineers often work together to generate creative solutions to problems and decide which ones are most promising.</p>	<p>The Nature of Science and Technology SE/TE: 86- 87, 97-107; Key Terms: 86, 97; Target Reading Skills: 86, 97; Discover Activity: 86, 97; At Home Activity: 95; Skills Activity: 90; Try This Activity: 93, 101; Skills Lab: 96; Technology Lab: 106-107; Teacher Demo: 98; Section Assessment: 95, 105; Writing in Science: 105 TE only: Differentiated Instruction: 89, 92, 98, 103; Teach Key Concept: 89, 91, 92, 94, 98, 99, 100, 102, 103, 104; Monitor Progress: 89, 91, 93, 99, 101, 103; Build Inquiry: 92, 101; Misconceptions: 86F, 90; Use Visuals: 90, 94; Help Students Read: 93, 100; Reviewing Key Concepts: 95, 105; Reteach: 95, 105; Performance Assessment: 87, 95, 105 TR: All-In-One: Reading Strategy Transparency: P30, 33; Guided Reading: 179-182, 190-193; Section Summary: 178, 189; Review and Reinforce: 183, 194; Enrich: 184, 195; Skills Lab Workshop: 185-187; Technology Lab Workshop: 196-198 TECH: NSTA PDLinks: scf-1630; PHSchool.com: scn-1631, cgp-6032; Discovery Channel School Video Preview: 87; Discovery Channel School Video Field Trip: 102; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> TECH: Alabama Tornado/Belated Early Warning</p>

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<p>6-8 APPF - Solutions must be tested to determine whether or not they will solve the problem. Results are used to modify the design, and the best solution must be communicated persuasively.</p>	<p>From Bacteria to Plants SE/TE: 13, 15, 53, 59, 70, 72-73, 93, 97, 115, 120-121, 164, 168-169; Applying Skills: 70; At Home: 164; Chapter Project: 72-73; Consumer Lab: 59; Design Your Own Lab: 120-121; Skills Activity: 13; Writing in Science: 15, 97 TE only: Build Inquiry: 53, 115; Differentiated Instruction: 93 TR: All-In-One: Lab Worksheets: 124-126, 232-234 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Animals SE/TE: 18, 33, 38-39, 46, 60-61, 93, 127, 141, 152, 155, 165; Consumer Lab: 18, 141; Design Your Own Lab: 155; Skills Lab: 33, 46, 60-61, 93, 127, 165 TE only: Build Inquiry: 152 TR: All-In-One: Lab Worksheets: 66-67, 76-78, 119-120, 135-137, 197-198, 258-260, 325-327 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Cells and Heredity SE/TE: 31, 42-43, 54, 63, 82-83, 113, 144, 147; Chapter Project: 42-43; Consumer Lab: 31; Design Your Own Lab: 54; Skills Lab: 63, 82-83, 147; Try This Activity: 113 TE only: Build Inquiry: 144 TR: All-In-One: Lab Worksheets: 70-71, 123-124, 133-134, 180-182, 300-302 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Human Biology and Health SE/TE: 29, 37, 54, 67, 153-154, 174-175, 181, 199, 209, 223, 241, 257; Chapter Project: 174-175; Consumer Lab: 54, 209; Design Your Own Lab: 37, 181; Skills Activity: 199; Skills HandBook: 257; Technology Lab: 223; Writing in Science: 29, 67, 153-154, 241 TR: All-In-One: Lab Worksheets: 123-124, 372-373, 397-399, 436-437 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Environmental Science SE/TE: 12, 41, 69, 75, 94, 131, 143, 144-145, 183; Chapter Project: 41; Consumer Lab: 183; Design Your Own Lab: 144-145; Skills Lab: 12, 69, 75, 94, 131 TR: All-In-One: Lab Worksheets: 53-54, 134-136, 192-193, 253-254 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p>

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(Continued)	<p>(Continued)</p> <p>Inside Earth SE/TE: 22, 66, 90, 123, 135, 137, 167, 183; At Home: 22, 90, 135; Design Your Own Lab: 167; Skills HandBook: 183; Skills Lab: 123; Technology Lab: 66 TR: All-In-One: Lab Worksheets: 144-145, 257, 355-356 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Earth's Changing Surface SE/TE: 37, 47, 55, 62, 65, 71, 83, 87; Applying Skills: 62; Chapter Project: 37, 65; Consumer Lab: 55; Skills Activity: 87; Skills Lab: 47, 71, 83 TR: All-In-One: Lab Worksheets: 117-119, 128-129, 181-183 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Earth's Waters SE/TE: 5, 27, 33, 40-41, 47, 55, 56, 90, 114-115, 123, 147; Applying Skills: 90, 123; At Home: 27, 33, 55; Chapter Project: 5, 47; Design Your Own Lab: 40-41; Skills Lab: 56; Technology Lab: 114-115; Differentiated Instruction: 147 TR: All-In-One: Lab Worksheets: 86-88, 126-127, 213-215 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Weather and Climate SE/TE: 27, 41, 117; Design Your Own Lab: 27; Skills Lab: 41, 117 TR: All-In-One: Lab Worksheets: 75-77, 114-116 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Astronomy SE/TE: 12, 47, 62, 102-103; Design Your Own Lab: 102-103; Section Assessment: 62; Technology Lab: 47; Build Inquiry: 12 TR: All-In-One: Lab Worksheets: 116-117 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Chemical Building Blocks SE/TE: 35, 54, 66-67, 73, 117, 144; Chapter Project: 73, 117; Writing in Science: 35, 54, 66-67 TE: Build Inquiry: 114 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p>

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(Continued)	<p>(Continued)</p> <p>Chemical Interaction SE/TE: 29, 73, 83, 88, 90-91, 110-111, 148-149; Chapter Project: 83; Consumer Lab: 110-111, 148-149; Design Your Own Lab: 90-91; Skills Activity: 88; Skills Lab: 29, 73 TR: All-In-One: Lab Worksheets: 69-72, 145-147, 192-194, 214-217, 281-283 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Motion Force and Energy SE/TE: 16-17, 40-41, 55, 62-63, 70, 74, 81, 89, 96, 116, 122-123, 135, 136-137, 157, 164, 165, 167, 175, 188- 189, 195, 202; At Home Activity: 135; Consumer Lab: 40-41; Discover Activity: 55, 74, 195; Design Your Own Lab: 81; Skills Lab: 16-17, 62-63, 88-89, 122-123, 136-137, 156-157, 164-165, 188-189; Try This Activity: 96, 116 TR: All-In-One: Lab Worksheets: 52-54, 133-134, 109-112, 182-184, 253-256, 266-268, 313-315, 323-326,381-383 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Electricity and Magnetism SE/TE: 43, 59, 93, 131; Consumer Lab: 59; Writing in Science: 43, 93, 131 TR: All-In-One: Lab Worksheets: 134-137 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Sound and Light SE/TE: 16, 53, 62, 89, 99, 112; Consumer Lab: 89; Design Your Own Lab: 53; Skills Activity: 62; Skills Lab: 16, 99, 112 TR: All-In-One: Lab Worksheets: 59-60, 132-134, 141-142, 202-203 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>The Nature of Science and Technology SE/TE: 5, 16, 19, 23, 40; Applying Skills: 40; Chapter Project: 5; Design Your Own Lab: 23 TR: All-In-One: Lab Worksheets: 61-63 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following</p> <p>Volcano TE: 18-19, 21-22, 29-30</p> <p>Tornado SE: 7,8 TE: 8, 9,10, 31</p>

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(continued)	<p>(continued)</p> <p>Asteroid SE: 54-55 TE: 26-27, 29-30</p> <p>Hurricane TE: 18-19</p> <p>Flood TE: 30-31</p> <p>Toxic Leak SE: 34-35, 38-39 TE: 18-19, 26-27</p> <p>Fire SE: 8-9, 59-60, 66-67 TE: 7-10, 19-20, 24-25, 32-33</p> <p>Outbreak SE: 8-9, 30-31, 38-39 TE: 16, 19, 20, 21,22-27</p> <p>Global Warming SE: 8-9 TE: 6-7</p> <p>Oil Spill SE: 15, 38-39,46-47 TE: 6-7, 14-16, 18, 19,20-21, 28-29</p> <p>Fraud TE: 5-8</p> <p>Gold Medal TE: 4-5</p> <p>Survive SE: 56-57 TE: 28-29</p>
6-8 APPG - The benefits of science and technology are not available to all the people in the world.	<p>Environmental Science SE/TE: 84-85, 120-121: Figure: 120; Science and History: 120-121; Writing in Science: 121 TE only: Differentiated Instruction; 84, 85, 120; Teacher Demo; 120; Use Visuals: 120; Teach Key Concepts: 85; Build Inquiry: 84 TECH: SciLinks.org: scn-0531</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Asteroid! SE: 19</p> <p>TECH: Alabama Tornado/Belated Early Warning</p>

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<p>6-8 APPH - People in all cultures have made and continue to make contributions to society through science and technology.</p>	<p>From Bacteria to Plants SE/TE: x-3: Careers in Science: Disease Detective Solves Mystery: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Animals SE/TE: x-3: Careers in Science: An Alligator's Sensitive Side: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Cells and Heredity SE/TE: x-3: Careers in Science: An Unfolding Mystery: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Human Biology and Heredity SE/TE: x-3: Careers in Science: A Steely Athletic Trainer: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Environmental Science SE/TE: x-3: Careers in Science: Treetop Scientist: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Inside Earth SE/TE: x-3: Careers in Science: Dancing with Volcanoes: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Earth's Changing Surface SE/TE: x-3: Careers in Science: Fossils Reveal Dinosaur Diet: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
(Continued)	<p>(Continued)</p> <p>Earth's Waters SE/TE: x-3: Careers in Science: Through the Lens of an Ocean Scientist: x-3, Writing in Science: 3 TE only: Background x, 1, 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Weather and Climate SE/TE: x-3: Careers in Science: Eyes in the Sky: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Astronomy SE/TE: x-3: Careers in Science: A Solar Astronomer: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Chemical Building Blocks SE/TE: x-3: Careers in Science: From Plants to Chemicals: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Chemical Interaction SE/TE: x-3: Careers in Science: Fossils Reveal Dinosaur Diet: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 1 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Motion Force and Energy SE/TE: xii-3: Careers in Science: Understanding Nature's Design: xii-3, Writing in Science: 3 TE only: Background xii, 1, 2; Use Visuals: 1</p> <p>Electricity and Magnetism SE/TE: x-3: Careers in Science: When Illusion is Better: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p>

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(Continued)	<p>(Continued)</p> <p>Sound and Light SE/TE: x-3: Careers in Science: Turning Down the Volume: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>The Nature of Science and Technology SE/TE: x-3: Careers in Science: Super Inventor: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed from the Technology Education Activities</p> <p>Earthquake TG: 16-17</p> <p>Flood TG: 22-23</p> <p>Volcano TG: 25-26 SE: 59</p> <p>Oil Spill TG: 30-31 SE: 37, 47</p> <p>Tornado TG: 22-23 SE: 16, 52</p> <p>Asteroid TG: 18-21 SE: 50-51</p> <p>Fraud SE: 36</p> <p>Thrill Ride SE: 4, 14, 23, 27</p> <p>TECH: Video: Quake of '89; Flood; The Mt. Pinatubo Eruption; Give Me the Tides, Give Me the Currents; Alabama Tornado and Belated Early Warning; Impact Crater</p>

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Performance Expectations	
Students are expected to:	
Describe how a technology has changed over time in response to societal challenges (e.g., population increase created a need for mass communication).	<p>From Bacteria to Plants SE/TE: 66-67; Science and Society: 66-67 TE only: Background: 66; Differentiated Instruction: 67 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Animals SE/TE: 108-109; Science and History: 108-109; Writing in Science: 109 TE only: Build Inquiry: 108; Differentiated Instruction: 109 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 8-9,, Science and History: 8-9; Writing in Science: 9 TE only: Background: 8; Build Inquiry: 8; Differentiated Instruction: 9 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Human Biology and Health SE/TE: 156-157; Science and History: 156-157; Writing in Science: 156-157 TE only: Background: 156; Build Inquiry: 157; Differentiated Instruction: 157 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Environmental Science SE/TE: 84-85; Science and History: 84-85; Writing in Science: 85 TE only: Build Inquiry: 84; Differentiated Instruction: 84, 85 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Inside Earth SE/TE: 74-75; Technology and Society: 74-75 TE only: Background: 74 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Earth's Changing Surface SE/TE: 14-15; Science and History: 14-15; Writing in Science: 15 TE only: Background: 14; Differentiated Instruction: 15 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Weather and Climate SE/TE: 84- 85; Science and History: 84-85; Writing in Science: 85 TE only: Background: 84; Differentiated Instruction: 85 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Astronomy SE/TE: 8-9; Science and History: 8-9; Writing in Science: 8 TE only: Background: 8; Differentiated Instruction: 9 TECH: Presentation Express CD; Teacher Express CD; Online Textbook; Student Edition on Audio CD</p> <p>Chemical Building Blocks SE/TE: 76-77; Science and History: 76-77; Writing in Science: 77 TE only: Background: 76; Build Inquiry: 76; Differentiated Instruction: 77 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Chemical Interaction SE/TE: 18-19; Science and History: 18-19; Writing in Science: 19 TE only: Background: 18, 19 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Motion Force and Energy SE/TE: 96-97; Science and History: 96-97; Writing in Science: 97 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Sound and Light SE/TE: 94-95; Science and History: 94-95; Writing in Science: 95; Background: 94, 95 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>The Nature of Science and Technology SE/TE: 46-47; Science and History: 46; Writing in Science: 46 TE only: Build Inquiry: 46 TECH: Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> TECH: Give Me the Tides, Give Me the Currents</p>

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<p>Investigate several professions in which an understanding of science and technology is required. Explain why that understanding is necessary for success in each profession.</p>	<p>From Bacteria to Plants SE/TE: x-3: Careers in Science: Disease Detective Solves Mystery: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Animals SE/TE: x-3: Careers in Science: An Alligator's Sensitive Side: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Cells and Heredity SE/TE: x-3: Careers in Science: An Unfolding Mystery: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Human Biology and Health SE/TE: x-3: Careers in Science: A Steely Athletic Trainer: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Environmental Science SE/TE: x-3: Careers in Science: Treetop Scientist: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Inside Earth SE/TE: x-3: Careers in Science: Dancing with Volcanoes: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>Earth's Changing Surface SE/TE: x-3: Careers in Science: Fossils Reveal Dinosaur Diet: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p>

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(Continued)	(Continued) Motion Force and Energy SE/TE: x-3: Careers in Science: Through the Lens of an Ocean Scientist: x-3, Writing in Science: 3 TE only: Background x, 1, 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express C Weather and Climate SE/TE: x-3: Careers in Science: Eyes in the Sky: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD Astronomy SE/TE: x-3: Careers in Science: A Solar Astronomer: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD Chemical Building Blocks SE/TE: x-3: Careers in Science: From Plants to Chemicals: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD Chemical Interaction SE/TE: x-3: Careers in Science: Fossils Reveal Dinosaur Diet: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 1 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD Motion Force and Energy SE/TE: xii-3: Careers in Science: Understanding Nature's Design: xii-3, Writing in Science: 3 TE only: Background xii, 1, 2; Use Visuals: 1 Electricity and Magnetism SE/TE: x-3: Careers in Science: When Illusion is Better: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 3 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD

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(Continued)	<p>(Continued)</p> <p>Sound and Light SE/TE: x-3: Careers in Science: Turning Down the Volume: x-3, Writing in Science: 3 TE only: Background x, 1, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p>The Nature of Science and Technology SE/TE: x-3: Careers in Science: Super Inventor: x-3, Writing in Science: 3 TE only: Background x, 2; Use Visuals: 2 TECH: Student Edition on Audio CD; Teacher Express CD; Online Text; Presentation Express CD</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Asteroid! SE: 14, 19, 29, 30, 46, 47</p> <p>Blackout! SE: 13, 19, 51</p> <p>Blight! SE: 8, 16, 23</p> <p>Earthquake! SE: 18, 26, 27, 28, 35, 38, 39</p> <p>First Flight! SE: 5, 14, 26, 42</p> <p>Flood! SE: 7, 12, 29</p> <p>Fraud! SE: 5, 19, 35</p> <p>Global Warming? SE: 17, 18, 19, 32, 33, 37</p> <p>Gold Medal! SE: 8, 26</p> <p>Gold Rush! SE: 25, 34, 39</p> <p>Hurricane! SE: 18</p> <p>Oil Spill! SE: 26, 30, 41</p>

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(continued)	<p>(continued)</p> <p>Outbreak! SE: 11, 12, 42</p> <p>Thrill Ride! SE: 15</p> <p>Tornado! SE: 9, 18, 30, 31, 36, 37, 39</p> <p>Toxic Spill! SE: 28, 29</p> <p>Volcano! SE: 33</p>
Give examples to illustrate how scientists have helped solve technological problems (e.g., how the science of biology has helped sustain fisheries) and how engineers have aided science (e.g., designing telescopes to discover distant planets).	<p>From Bacteria to Plants SE/TE: 112; Technology and Society: 112 TE only: Background: 112 TECH: Student Edition on Audio CD</p> <p>Animals SE/TE: 68; Technology and Society: 68 TE only: Background: 68 TECH: Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 130; Technology and Society: 130 TE only: Background: 130 TECH: Student Edition on Audio CD</p> <p>Human Biology and Health SE/TE: 104; Technology and Society: 104 TE only: Background: 104 TECH: Student Edition on Audio CD</p> <p>Environmental Science SE/TE: 184; Technology and Society: 184 TECH: Student Edition on Audio CD</p> <p>Inside Earth SE/TE: 74; Technology and Society: 74 TE only: Background: 74 TECH: Student Edition on Audio CD</p> <p>Earth's Changing Surface SE/TE: 24; Technology and Society: 24 TE only: Background: 24 TECH: Student Edition on Audio CD</p> <p>Earth's Water SE/TE: 64; Technology and Society: 64 TE only: Background: 64 TECH: Student Edition on Audio CD</p> <p>Weather and Climate SE/TE: 100; Technology and Society: 100 TE only: Background: 100 TECH: Student Edition on Audio CD</p>

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(continued)	<p>(continued)</p> <p>Fraud SE: 5, 34, 37</p> <p>Thrill Ride SE: 8-10, 11-12, 17 TE: 4-7</p> <p>Oil Spill SE: 45, 47 TE: 26, 27, 28, 30, 31</p> <p>Gold Medal SE: 26-27, 34-35, 47, TE: 20, 21</p>
<p>Formulate a problem that can be solved by the technological design process, and identify criteria for success. Research how others have solved similar problems. Brainstorm different solutions.</p>	<p>From Bacteria to Plants SE/TE: 13, 15, 53, 59, 70, 72-73, 93, 97, 115, 120-121, 164, 168-169; Applying Skills: 70; At Home: 164; Chapter Project: 72-73; Consumer Lab: 59; Design Your Own Lab: 120-121; Skills Activity: 13; Writing in Science: 15, 97 TE only: Build Inquiry: 53, 115; Differentiated Instruction: 93 TR: All-In-One: Lab Worksheets: 124-126, 232-234 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Animals SE/TE: 18, 33, 38-39, 46, 60-61, 93, 127, 141, 152, 155, 165; Consumer Lab: 18, 141; Design Your Own Lab: 155; Skills Lab: 33, 46, 60-61, 93, 127, 165 TE only: Build Inquiry: 152 TR: All-In-One: Lab Worksheets: 66-67, 76-78, 119-120, 135-137, 197-198, 258-260, 325-327 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 31, 42-43, 54, 63, 82-83, 113, 144, 147; Chapter Project: 42-43; Consumer Lab: 31; Design Your Own Lab: 54; Skills Lab: 63, 82-83, 147; Try This Activity: 113 TE only: Build Inquiry: 144 TR: All-In-One: Lab Worksheets: 70-71, 123-124, 133-134, 180-182, 300-302 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(continued)	<p>(continued)</p> <p>Human Biology and Health SE/TE: 29, 37, 54, 67, 153-154, 174-175, 181, 199, 209, 223, 241, 257; Chapter Project: 174-175; Consumer Lab: 54, 209; Design Your Own Lab: 37, 181; Skills Activity: 199; Skills HandBook: 257; Technology Lab: 223; Writing in Science: 29, 67, 153-154, 241 TR: All-In-One: Lab Worksheets: 123-124, 372-373, 397-399, 436-437 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Environmental Science SE/TE: 12, 41, 69, 75, 94, 131, 143, 144-145, 183; Chapter Project: 41; Consumer Lab: 183; Design Your Own Lab: 144-145; Skills Lab: 12, 69, 75, 94, 131 TR: All-In-One: Lab Worksheets: 53-54, 134-136, 192-193, 253-254 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Inside Earth SE/TE: 22, 66, 90, 123, 135, 137, 167, 183; At Home: 22, 90, 135; Design Your Own Lab: 167; Skills HandBook: 183; Skills Lab: 123; Technology Lab: 66 TR: All-In-One: Lab Worksheets: 144-145, 257, 355-356 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Earth's Changing Surface SE/TE: 37, 47, 55, 62, 65, 71, 83, 87; Applying Skills: 62; Chapter Project: 37, 65; Consumer Lab: 55; Skills Activity: 87; Skills Lab: 47, 71, 83 TR: All-In-One: Lab Worksheets: 117-119, 128-129, 181-183 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p>Earth's Waters SE/TE: 5, 27, 33, 40-41, 47, 55, 56, 90, 114-115, 123, 147; Applying Skills: 90, 123; At Home: 27, 33, 55; Chapter Project: 5, 47; Design Your Own Lab: 40-41; Skills Lab: 56; Technology Lab: 114-115 TE only: Differentiated Instruction: 147 TR: All-In-One: Lab Worksheets: 86-88, 126-127, 213-215 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(Continued)	<p>(Continued)</p> <p>Weather and Climate SE/TE: 27, 41, 117; Design Your Own Lab: 27; Skills Lab: 41, 117 TR: All-In-One: Lab Worksheets: 75-77, 114-116 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Astronomy SE/TE: 12, 47, 62, 102-103; Design Your Own Lab: 102-103; Section Assessment: 62; Technology Lab: 47 TE only: Build Inquiry: 12 TR: All-In-One: Lab Worksheets: 116-117 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Chemical Building Blocks SE/TE: 35, 54, 66-67, 73, 117, 144; Chapter Project: 73, 117; Writing in Science: 35, 54, 66-67 TE only: Build Inquiry: 114 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Chemical Interaction SE/TE: 29, 73, 83, 88, 90-91, 110-111, 148-149; Chapter Project: 83; Consumer Lab: 110-111, 148-149; Design Your Own Lab: 90-91; Skills Activity: 88; Skills Lab: 29, 73 TR: All-In-One: Lab Worksheets: 69-72, 145-147, 192-194, 214-217, 281-283 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Motion Force and Energy SE/TE: 16-17, 40-41, 55, 62-63, 70, 74, 81, 89, 96, 116, 122-123, 135, 136-137, 157, 164, 165, 167, 175, 188- 189, 195, 202; At Home Activity: 135; Consumer Lab: 40-41; Discover Activity: 55, 74, 195; Design Your Own Lab: 81; Skills Lab: 16-17, 62-63, 88-89, 122-123, 136-137, 156-157, 164-165, 188-189; Try This Activity: 96, 116 TR: All-In-One: Lab Worksheets: 52-54, 133-134, 109-112, 182-184, 253-256, 266-268, 313-315, 323-326, 381-383 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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<p>Collaborate with other students to generate creative solutions to a problem, and apply methods for making trade-offs to choose the best solution.</p>	<p>From Bacteria to Plants SE/TE: 13, 15, 53, 59, 70, 72-73, 93, 97, 115, 120-121, 164, 168-169; Applying Skills: 70; At Home: 164; Chapter Project: 72-73; Consumer Lab: 59; Design Your Own Lab: 120-121; Skills Activity: 13; Writing in Science: 15, 97 TE only: Build Inquiry: 53, 115; Differentiated Instruction: 93 TR: All-In-One: Lab Worksheets: 124-126, 232-234 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Animals SE/TE: 18, 33, 38-39, 46, 60-61, 93, 127, 141, 152, 155, 165; Consumer Lab: 18, 141; Design Your Own Lab: 155; Skills Lab: 33, 46, 60-61, 93, 127, 165 TE only: Build Inquiry: 152 TR: All-In-One: Lab Worksheets: 66-67, 76-78, 119-120, 135-137, 197-198, 258-260, 325-327 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 31, 42-43, 54, 63, 82-83, 113, 144, 147; Chapter Project: 42-43; Consumer Lab: 31; Design Your Own Lab: 54; Skills Lab: 63, 82-83, 147; Try This Activity: 113 TE only: Build Inquiry: 144 TR: All-In-One: Lab Worksheets: 70-71, 123-124, 133-134, 180-182, 300-302 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Human Biology and Health SE/TE: 29, 37, 54, 67, 153-154, 174-175, 181, 199, 209, 223, 241, 257; Chapter Project: 174-175; Consumer Lab: 54, 209; Design Your Own Lab: 37, 181; Skills Activity: 199; Skills HandBook: 257; Technology Lab: 223; Writing in Science: 29, 67, 153-154, 241 TR: All-In-One: Lab Worksheets: 123-124, 372-373, 397-399, 436-437 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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(continued)	(continued) Survive SE: 56-57 TE: 28-29
Test the best solution by building a model or other representation, and using it with the intended audience. Redesign if necessary. Present the recommended design using models or drawings and an engaging presentation.	<p>From Bacterial to Plants SE/TE: 13, 15, 53, 59, 70, 72-73, 93, 97, 115, 120-121, 164, 168-169; Applying Skills: 70; At Home: 164; Chapter Project: 72-73; Consumer Lab: 59; Design Your Own Lab: 120-121; Skills Activity: 13; Writing in Science: 15, 97 TE only: Build Inquiry: 53, 115; Differentiated Instruction: 93 TR: All-In-One: Lab Worksheets: 124-126, 232-234 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Animals SE/TE: 18, 33, 38-39, 46, 60-61, 93, 127, 141, 152, 155, 165; Consumer Lab: 18, 141; Design Your Own Lab: 155; Skills Lab: 33, 46, 60-61, 93, 127, 165 TE only: Build Inquiry: 152 TR: All-In-One: Lab Worksheets: 66-67, 76-78, 119-120, 135-137, 197-198, 258-260, 325-327 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 31, 42-43, 54, 63, 82-83, 113, 144, 147; Chapter Project: 42-43; Consumer Lab: 31; Design Your Own Lab: 54; Skills Lab: 63, 82-83, 147; Try This Activity: 113 TE only: Build Inquiry: 144 TR: All-In-One: Lab Worksheets: 70-71, 123-124, 133-134, 180-182, 300-302 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Human Biology and Health SE/TE: 29, 37, 54, 67, 153-154, 174-175, 181, 199, 209, 223, 241, 257; Chapter Project: 174-175; Consumer Lab: 54, 209; Design Your Own Lab: 37, 181; Skills Activity: 199; Skills HandBook: 257; Technology Lab: 223; Writing in Science: 29, 67, 153-154, 241 TR: All-In-One: Lab Worksheets: 123-124, 372-373, 397-399, 436-437</p>

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<p>Contrast the benefits of science and technology enjoyed by people in industrialized and developing nations.</p>	<p>Human Biology and Health SE/TE: 104-105; Technology and Society: 104-105 TE only: Background TECH: PHSchool.com: ceh-4030; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Environmental Science SE/TE: 184-185; Technology and Society: 184-185 TE only: Introduce the Debate: 184 TECH: PHSchool.com: ceh-5050; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed from the Technology Education Activities</p> <p>Earthquake TG: 16-17 SE: 41</p> <p>Flood TG: 22-23</p> <p>Volcano TG: 25-26 SE: 59</p> <p>Oil Spill TG: 30-31 SE: 47</p> <p>Tornado TG: 22-23 SE: 52</p> <p>Asteroid TG: 18-21 SE: 50-51 TECH: Video: Quake of '89; Flood; The Mt. Pinatubo Eruption; Give Me the Tides, Give Me the Currents; Alabama Tornado and Belated Early Warning; Impact Crater</p>

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Describe scientific or technological contributions to society by people in various cultures.	<p>From Bacteria to Plants SE/TE: 112; Technology and Society: 112 TE only: Background: 112 TECH: Student Edition on Audio CD</p> <p>Animals SE/TE: 68; Technology and Society: 68 TE only: Background: 68 TECH: Student Edition on Audio CD</p> <p>Cells and Heredity SE/TE: 130; Technology and Society: 130 TE only: Background: 130 TECH: Student Edition on Audio CD</p> <p>Human Biology and Health SE/TE: 104; Technology and Society: 104 TE only: Background: 104 TECH: Student Edition on Audio CD</p> <p>Environmental Science SE/TE: 184; Technology and Society: 184 TECH: Student Edition on Audio CD</p> <p>Inside Earth SE/TE: 74; Technology and Society: 74 TE only: Background: 74 TECH: Student Edition on Audio CD</p> <p>Earth's Changing Surface SE/TE: 24; Technology and Society: 24 TE only: Background: 24 TECH: Student Edition on Audio CD</p> <p>Earth's Waters SE/TE: 64; Technology and Society: 64 TE only: Background: 64 TECH: Student Edition on Audio CD</p> <p>Weather and Climate SE/TE: 100; Technology and Society: 100 TE only: Background: 100 TECH: Student Edition on Audio CD</p> <p>Astronomy SE/TE: 64; Technology and Society: 64 TE only: Background: 64 TECH: Student Edition on Audio CD</p> <p>Chemical Building Blocks SE/TE: 128; Technology and Society: 128 TE only: Background: 128 TECH: Student Edition on Audio CD</p> <p>Chemical Interaction SE/TE: 64; Technology and Society: 64 TE only: Background: 64 TECH: Student Edition on Audio CD</p> <p>Electricity and Magnetism SE/TE: 90; Technology and Society: 90 TE only: Background: 91 TECH: Student Edition on Audio CD</p>

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(Continued)	(Continued) Sound and Light SE/TE: 82; Technology and Society: 82 TE only: Background: 83 TECH: Student Edition on Audio CD The Nature of Science and Technology SE/TE: 116; Technology and Society: 116 TE only: Background: 117 TECH: Student Edition on Audio CD <u>EVENT-BASED SCIENCE</u> Can be developed from the Technology Education Activities Earthquake TG: 16-17 SE: 41 Flood TG: 22-23 SE: 55 Volcano TG: 25-26 SE: 59 Oil Spill TG: 30-31 SE: 47 Tornado TG: 22-23 SE: 52 Asteroid TG: 18-21 SE: 50-51 TECH: Video: Quake of '89; Flood; The Mt. Pinatubo Eruption; Give Me the Tides, Give Me the Currents; Alabama Tornado and Belated Early Warning; Impact Crater

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<p align="center">The Revised Washington State K-12 Science Standards, (12/14/2008)</p>	<p align="center">Science Explorer - © 2009 / EBS © 2005</p>
<p>EALR 4: Physical Science</p>	
<p>Big Idea: Force and Motion (PS1)</p>	
<p>Core Content: Balanced and Unbalanced Forces</p>	
<p>In prior grades, students learned to use basic tools to measure force, time, and distance. In grades 6-8, students learn to measure, record, calculate the average speed of objects, and to tabulate and graph the results. They also develop a qualitative understanding of inertia. Students learn to predict the motion of objects subject to opposing forces along the line of travel. If the forces are balanced, the object will continue moving the same speed and direction; but if the forces are not balanced, the object's motion will change. These concepts and principles prepare students for a more formal understanding of mechanics in high school and help them make sense of the world around them.</p>	
<p>Content Standards</p>	
<p>Students know that:</p>	
<p>6-8 PS1A - Average speed is defined as the distance traveled in a given period of time.</p>	<p>Motion, Force and Energy SE/TE: 4-17, 18-21, 22-33; Key Terms: 6, 18, 22; Target Reading Skills: 6, 18, 22; Discover Activity: 6, 18, 22; Chapter Project: 5; Tech and Design in History: 12-13; Teacher Demo: 12; Skill Activity: 10, 25, 27; Skills Lab: 16-17, 28-29; Math Problem: 15; Math Skill: 9; Section Assessment: 15, 21, 27; At Home Activity: 21; Writing in Science: 13 TE only: Differentiated Instruction: 7, 11, 13, 19, 23, 24; Misconceptions: 4F, 10, 23, 26; Build Inquiry: 9, 11, 14, 20, 25; Figure: 7; Use Visuals: 8; Integrate Space Science: 8; Teach Key Concepts: 7, 10, 12, 14, 19, 20, 23, 24, 26; Monitor Progress: 7, 9, 11, 13, 19, 23; Review Key Concepts: 15, 21, 27; Reteach: 15, 21, 27; Performance Assessment: 5, 15, 21, 27; Graphic Organizer: 31; Think Critically: 32; STP: 33; Help Students Read: 24 TR: All-in-one: Key Term Review: 72; Reading Strategy Transparency: M14; Performance Assessment Teacher Notes: 81; Performance Assessment Scoring: 82; Performance Assessment Student Worksheet: 83; Chapter Test: 84-87; Chapter Project Teacher Notes: 38-39; Chapter Project Student Worksheet: 42-43; Chapter Project Student Overview: 40-41; Chapter Project Scoring Rubric: 44; Guided Reading: 47-49, 57-58, 63-65; Transparencies: M10, 2, 3, 5, 6; Section Summary: 46, 56, 62; Review and Reinforce: 50, 59, 66; Enrich: 51, 60, 67; Skills Lab Worksheet: 52-54, 68-71 TECH: NSTA PDLink: scf-1310; PHSchool.com: cgp-3011, cgd-3012, cfp-1015, scn-1313; VP: 5; VFT: 12; VA: 31; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text; Student Edition on Audio CD</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
(continued)	(continued) <u>EVENT-BASED SCIENCE</u> Can be developed using the following Thrill Ride! SE: 36-37
6-8 PS1B - Friction is a force that acts to slow or stop the motion of objects.	<p>Motion, Force and Energy SE/TE: 42-50; Key Terms: 42; Target Reading Skills: 42; Discover Activity: 42; Figure: 43; Try This Activity: 44; Skill Activity: 47; Math Analyzing Data: 48; Integrate Life Science: 47; Teach Key Concepts: 43, 46, 48; Monitor Progress: 43, 45, 47, 49, 50; Section Assessment: 50; Writing in Science: 50 TE only: Differentiated Instruction: 43, 49, 53, 60; Misconceptions: 34h, 47; Build Inquiry: 38, 45, 49; Integrate Life Science: 47; Teach Key Concepts: 43, 46, 48; Monitor Progress: 43, 45, 47, 49, 50; Review Key Concepts: 50; Reteach: 50; Help Students Read: 44 TR: All-In-One: Key Term Review: 142 Reading Strategy Transparency: M11, 13, 15; Guided Reading: 115-118; Transparencies: M12, 14; Section Summary: 114; Review and Reinforce: 119; Enrich: 120 TECH: NSTA PDLink: scf-1320; PHSchool.com: scn-1321, scn-1322, cgd-3023, cgp-3024; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u> Thrill Ride! SE: 11, 12, 17, 24</p>
6-8 PS1C - Unbalanced forces will cause changes in the speed or direction of an object's motion.	<p>Motion, Force and Energy SE/TE: 34-41, 42-50, 51-54, 55-63; Key Terms: 34, 42, 51, 55; Target Reading Skills: 34, 42, 51, 55; Discover Activity: 34, 42, 51, 55; Chapter Project: 35, Figure: 37, 43; Try This Activity: 44, 52, 59; Skill Activity: 47; Skills Lab: 62-63; Consumer Lab: 40-41; Math Problem: 53, 54, 58, 61; Math Analyzing Data: 48 Section Assessment: 39, 50, 54; At Home Activity: 39, 67; Writing in Science: 50</p>

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(continued)	<p>(continued)</p> <p>TE only: Differentiated Instruction: 37, 38, 43, 49, 53, 60; Misconceptions: 34h, 47; Build Inquiry: 38, 45, 49, 57; Teacher Demo: 45, 53, 60; ; Integrate Life Science: 47; Teach Key Concepts: 37, 43, 46, 48, 52, 56, 58; Monitor Progress: 37, 43, 45, 47, 49, 50, 52, 53, 54, 57, 59; Review Key Concepts: 39, 50, 54, 61; Reteach: 39, 50, 54, 61; Performance Assessment: 35, 39; Help Students Read: 44, 56</p> <p>TR: All-In-One: Key Term Review: 142; Reading Strategy Transparency: M11, 13, 15, 17, 22; Performance Assessment Teacher Notes: 150; Performance Assessment Scoring: 151; Performance Assessment Student Worksheet: 152; Chapter Test: 153-156; Chapter Project Teacher Notes: 96-97; Chapter Project Student Overview: 98-99; Chapter Project Scoring Rubric: 100-101; Guided Reading: 105-106, 115-118, 123-124, 129-130; Transparencies: M12, 14; Section Summary: 104, 114, 122, 128; Review and Reinforce: 107, 119, 125, 131; Enrich: 108, 120, 126, 132</p> <p>TECH: NSTA PDLink: scf-1320; PHSchool.com: scn-1321, scn-1322, cgd-3023, cgp-3024; Discovery Channel School Video Preview: 35; Discovery Channel School Video Field Trip: 57; Discovery Channel School Video Assessment: 65; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>First Flight! SE: 23, 24</p> <p>Thrill Ride! SE: 23, 47</p>

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<p>6-8 PS1D - The same unbalanced force will change the motion of an object with more mass more slowly than an object with less mass.</p>	<p>Motion, Force and Energy SE/TE: 34-41, 42-50, 51-54, 55-63; Key Terms: 34, 42, 51, 55; Target Reading Skills: 34, 42, 51, 55; Discover Activity: 34, 42, 51, 55; Chapter Project: 35, Figure: 37, 43; Try This Activity: 44, 52, 59; Skill Activity: 47; Skills Lab: 62-63; Consumer Lab: 40-41; Math Problem: 53, 54, 58, 61; Math Analyzing Data: 48Section Assessment: 39, 50, 54; At Home Activity: 39, 67; Writing in Science: 50 TE only: Differentiated Instruction: 37, 38, 43, 49, 53, 60; Misconceptions: 34h, 47; Build Inquiry: 38, 45, 49, 57; Teacher Demo: 45, 53, 60; ; Integrate Life Science: 47; Teach Key Concepts: 37, 43, 46, 48, 52, 56, 58; Monitor Progress: 37, 43, 45, 47, 49, 50, 52, 53, 54, 57, 59; Review Key Concepts: 39, 50, 54, 61; Reteach: 39, 50, 54, 61; Performance Assessment: 35, 39; Help Students Read: 44, 56 TR: All-In-One: Key Term Review: 142; Reading Strategy Transparency: M11, 13, 15, 17, 22; Performance Assessment Teacher Notes: 150; Performance Assessment Scoring: 151; Performance Assessment Student Worksheet: 152; Chapter Test: 153-156; Chapter Project Teacher Notes: 96-97; Chapter Project Student Overview: 98-99; Chapter Project Scoring Rubric: 100-101; Guided Reading: 105-106, 115-118, 123-124, 129-130; Transparencies: M12, 14; Section Summary: 104, 114, 122, 128; Review and Reinforce: 107, 119, 125, 131; Enrich: 108, 120, 126, 132 TECH: NSTA PDLINK: scf-1320; PHSchool.com: scn-1321, scn-1322, cgd-3023, cgp-3024; Discovery Channel School Video Preview: 35; Discovery Channel School Video Field Trip: 57; Discovery Channel School Video Assessment: 65; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Thrill Ride! SE: 23</p>

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Performance Expectations	
Students are expected to:	
<p>Measure the distance an object travels in a given interval of time and calculate the object's average speed, using $S = d/t$. (e.g., a battery-powered toy car travels 20 meters in 5 seconds, so its average speed is 4 meters per second). Illustrate the motion of an object, using a graph, or infer the motion of an object from a graph of the object's position vs. time or speed vs. time.</p>	<p>Motion, Force and Energy SE/TE: 4-17, 18-21, 22-33; Key Terms: 6, 18, 22; Target Reading Skills: 6, 18, 22; Discover Activity: 6, 18, 22; Chapter Project: 5; Tech and Design in History: 12-13; Teacher Demo: 12; Skill Activity: 10, 25, 27; Skills Lab: 16-17, 28-29; Math Problem: 15; Math Skill: 9; Section Assessment: 15, 21, 27; At Home Activity: 21; Writing in Science: 13 TE only: Differentiated Instruction: 7, 11, 13, 19, 23, 24; Misconceptions: 4F, 10, 23, 26; Build Inquiry: 9, 11, 14, 20, 25; Figure: 7; Use Visuals: 8; Integrate Space Science: 8; Teach Key Concepts: 7, 10, 12, 14, 19, 20, 23, 24, 26; Monitor Progress: 7, 9, 11, 13, 19, 23; Review Key Concepts: 15, 21, 27; Reteach: 15, 21, 27; Performance Assessment: 5, 15, 21, 27; Graphic Organizer: 31; Think Critically: 32; STP: 33; Help Students Read: 24 TR: All-in-one: Key Term Review: 72; Reading Strategy Transparency: M14; Performance Assessment Teacher Notes: 81; Performance Assessment Scoring: 82; Performance Assessment Student Worksheet: 83; Chapter Test: 84-87; Chapter Project Teacher Notes: 38-39; Chapter Project Student Worksheet: 42-43; Chapter Project Student Overview: 40-41; Chapter Project Scoring Rubric: 44; Guided Reading: 47-49, 57-58, 63-65; Transparencies: M10, 2, 3, 5, 6; Section Summary: 46, 56, 62; Review and Reinforce: 50, 59, 66; Enrich: 51, 60, 67; Skills Lab Worksheet: 52-54, 68-71 TECH: NSTA PDLink: scf-1310; PHSchool.com: cgp-3011, cgd-3012, cfp-1015, scn-1313; VP: 5; VFT: 12; VA: 31; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text; Student Edition on Audio CD</p> <p>EVENT-BASED SCIENCE Can be developed using the following Asteroid SE: 51-52 Thrill Ride! SE: 36-37</p>

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<p>Demonstrate and explain the frictional force acting on an object with the use of a physical model.</p>	<p>Motion, Force and Energy SE/TE: 42-50; Key Terms: 42; Target Reading Skills: 42; Discover Activity: 42; Figure: 43; Try This Activity: 44; Skill Activity: 47; Math Analyzing Data: 48; Integrate Life Science: 47; Teach Key Concepts: 43, 46, 48; Monitor Progress: 43, 45, 47, 49, 50; Section Assessment: 50; Writing in Science: 50 TE only: Differentiated Instruction: 43, 49, 53, 60; Misconceptions: 34h, 47; Build Inquiry: 38, 45, 49; Integrate Life Science: 47; Teach Key Concepts: 43, 46, 48; Monitor Progress: 43, 45, 47, 49, 50; Review Key Concepts: 50; Reteach: 50; Help Students Read: 44 TR: All-In-One: Key Term Review: 142 Reading Strategy Transparency: M11, 13, 15; Guided Reading: 115-118; Transparencies: M12, 14; Section Summary: 114; Review and Reinforce: 119; Enrich: 120 TECH: NSTA PDLINK: scf-1320; PHSchool.com: scn-1321, scn-1322, cgd-3023, cgp-3024; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u> Thrill Ride! SE: 11, 12, 21, 22 TG: 5, 7, 9, 10</p>
<p>Determine whether forces on an object are balanced or unbalanced and justify with observational evidence. Given a description of forces on an object, predict the object's motion.</p>	<p>Motion, Force and Energy SE/TE: 34-41; Key Terms: 34; Target Reading Skills: 34; Discover Activity: 34; Chapter Project: 35, Figure: 37; Consumer Lab: 40-41; Section Assessment: 39; At Home Activity: 39 TE only: Differentiated Instruction: 37, 38; Misconceptions: 34; Build Inquiry: 38; Teach Key Concepts: 37; Monitor Progress: 37; Review Key Concepts: 39; Reteach: 39; Performance Assessment: 35, 39 TR: All-In-One: Key Term Review: 142; Reading Strategy Transparency: M11, 13; Guided Reading: 105-106; Transparencies: M12, 14; Section Summary: 104; Review and Reinforce: 107; Enrich: 108 TECH: NSTA PDLINK: scf-1320; PHSchool.com: scn-132; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p>

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(continued)	(continued) <u>EVENT-BASED SCIENCE</u> Can be developed using the following Thrill Ride TG: 15- 17 SE: 33, 40
Given two different masses that receive the same unbalanced force, predict which will move more quickly.	Motion, Force and Energy SE/TE: 55-63; Key Terms: 55; Target Reading Skills: 3455; Discover Activity: 55; Try This Activity: 59; Skills Lab: 62-63; Math Problem: 58, 61 TE only: Differentiated Instruction: 60; Build Inquiry: 57; Teacher Demo: 60; Teach Key Concepts: 56, 58; Monitor Progress: 57, 59; Review Key Concepts: 61; Reteach: 61; Help Students Read: 56 TR: All-In-One: Key Term Review: 142; Reading Strategy Transparency: M22; Guided Reading: 129-130; Transparencies: M12, 14; Section Summary: 128; Review and Reinforce: 131; Enrich: 132 TECH: NSTA PDLINK: scf-1320; PHSchool.com: cgp-3024; Discovery Channel School Video Field Trip: 57; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text
EALR 4: Physical Science	
Big Idea: Matter: Properties and Change (PS2)	
Core Content: Atoms and Molecules	
In prior grades, students learned the scientific meaning of the word matter, and about changes of state. In grades 6-8, students learn the basic concepts behind the atomic nature of matter. This includes the idea that elements are composed of a single kind of atom. Atoms chemically combine with each other or with atoms of other elements to form compounds. When substances are combined in physical mixtures, their chemical properties do not change; but when they combine chemically, the new product has different physical and chemical properties from any of the reacting substances. When substances interact in a closed system, the amount of mass does not change. Atomic theory also explains the ways that solids, liquids, and gases behave. These concepts about the nature of matter are fundamental to all sciences and technologies.	
Content Standards	
Students know that:	
6-8 PS2A - Substances have characteristic intrinsic properties, such as density, solubility, boiling point, and melting point, all of which are independent of the amount of the sample.	Chemical Building Blocks SE/TE: 4-15, 16-21, 22-27, 30-33; At Home Activity: 33; Chapter Project: 5; Discover Activity: 6, 16, 22, 30; Key Terms: 6, 16, 22, 30; Math Analyzing Data: 26; Math Practice: 15, 19, 20; Math Skills: 12; Skill Activity: 8, 24; Skill Lab: 21, 34-35; Target Reading Skills: 6, 16, 22, 30; Try This Activity: 31; Writing in Science: 27

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(continued)	<p>(continued) TE only: Address Misconceptions: 4G, 10; Build Inquiry: 8, 11, 13, 14, 18; Differentiated Instruction: 7, 11, 13, 17, 19, 23, 26; Monitor Progress: 7, 9, 11, 13, 17, 19, 20, 23, 25, 27; Performance Assessment: 15, 20, 27; Teach Key Concept: 7, 10, 12, 17, 18, 19, 23, 24, 26; Teacher Demo: 24; Use Visuals: 9, 11, 25; Discovery Channel School Video Preview: 5; Discovery Channel School Video Field Trip: 14 TR: All-In-One: Chapter Project Teacher Notes: 38-39; Chapter Project Student Overview: 40-41; Chapter Project Student Worksheets: 42-43; Chapter Project Scoring Rubric: 44; Lab Worksheets: 21, 34; Guided Reading: 47-50, 54-56, 63-64, 69-70; Transparency: K1, 40, 3, 5, 6; All-In-One: Section Summary: 46, 53, 62, 68; All-In-One: Review and Reinforce: 50, 57, 65, 71; All-In-One: Enrich: 51, 58, 66, 72 TECH: All-In-One: Lab Zone: Discovery Channel School Video / DVD; Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p> <p><u>EVENT-BASED SCIENCE</u> Oil Spill! SE: 35, 38</p>
6-8 PS2B - Mixtures are combinations of substances whose chemical properties are preserved. Compounds are substances that are chemically formed and have different physical and chemical properties from the reacting substances.	<p>Chemical Building Blocks SE/TE: 4-15; Discover Activity: 6; Key Terms: 6; Math Practice: 15; Math Skills: 12; Skill Activity: 8; Target Reading Skills: 6 TE: Address Misconceptions: 4G, 10; Build Inquiry: 8, 11, 13, 14; Differentiated Instruction: 7, 11, 13; Monitor Progress: 7, 9, 11, 13; Performance Assessment: 15; Teach Key Concept: 7, 10, 12; Use Visuals: 9, 11 TR: All-In-One: Guided Reading: 47-50; Transparency: K1; Section Summary: 46; Review and Reinforce: 50; Enrich: 51 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD</p> <p><u>EVENT-BASED SCIENCE</u> Fraud! SE: 11, 12 TG: 5, 6</p> <p>Gold Rush! SE: 20, 21</p>

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6-8 PS2C - All matter is made of atoms. Matter made of only one type of atom is called an element.	<p>Chemical Building Blocks SE/TE:4-15; Discover Activity: 6; Key Terms: 6; Math Practice: 15; Math Skills: 12; Skill Activity: 8; Target Reading Skills: 6 TE: Address Misconceptions: 4G, 10; Build Inquiry: 8, 11, 13, 14; Differentiated Instruction: 7, 11, 13; Monitor Progress: 7, 9, 11, 13; Performance Assessment: 15; Teach Key Concept: 7, 10, 12; Use Visuals: 9, 11 TR: All-In-One: Guided Reading: 47-50; Transparency: K1; Section Summary: 46; Review and Reinforce: 50; Enrich: 51 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD</p> <p>Chemical Interactions SE/TE: 4-11, 12-21, 22-29, 30-35; Key Terms: 6; Target Reading Skills: 6; Discover Activity: 6 TE only: Differentiated Instruction: 7, 8; Use Visuals: 8, 9; Teacher Demo: 10; Review Key Concepts: 11; Reteach: 11; Teach Key Concepts: 7, 8; Monitor Progress: 7, 9; Help Students Read: 10 TR: All-In-One: Guided Reading: 53-55; Reading Strategy Transparency: L1, 2; Section Summary: 46; Review and Reinforce: 49; Enrich: 50 TECH: NSTA PDLink: scf-1210; PHSchool.com: cgp-1032, cgd-2011, scn-1213; Discovery Channel School Video Preview: 5; Discovery Channel School Video Field Trip: 18; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Fraud! SE: 9, 11, 12 TG: 5</p> <p>Gold Rush! SE: 2, 4, 5, 6</p> <p>Hurricane! SE: 7</p>

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<p>6-8 PS2D - Compounds are composed of two or more kinds of atoms, which are bound together in well-defined molecules or arrays.</p>	<p>Chemical Interactions SE/TE: 4-11, 12-21, 22-29, 30-35; Key Terms: 6, 12, 22, 30; Target Reading Skills: 6, 12, 22, 30; Discover Activity: 6, 12, 22, 30; Chapter Project: 5; Figure: 14-15; Background 18, 19; Tech and Design in History: 18-19; Skill Activity: 17, 25; Skills Lab: 21, 28-29; Math Analyzing Data: 33; At Home Activity: 20; Writing in Science: 19 TE only: Differentiated Instruction: 7, 8, 13, 15, 23, 31, 33; Build Inquiry: 14, 15, 17, 24; Use Visuals: 8, 9, 15, 16, 24, 31, 32, 34; Teacher Demo: 10, 18, 26, 34; Review Key Concepts: 11, 20, 27; Reteach: 11, 20, 27; Teach Key Concepts: 7, 8, 13, 14, 23, 25, 26, 31, 32, 33; Monitor Progress: 7, 9, 13, 15, 17, 23, 25, 31, 33; Help Students Read: 10, 13 TR: All-In-One: Guided Reading: 53-55; Reading Strategy Transparency: L1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12; Section Summary: 46, 52, 62, 74; Review and Reinforce: 49, 56, 67, 78; Enrich: 50, 57, 68, 79; Performance Assessment Teacher Notes: 93; Performance Assessment Scoring: 94; Performance Assessment Student Worksheet: 95; Chapter Project Teacher Notes: 38-39; Chapter Project Student Overview: 40-41; Chapter Project Student Worksheet: 42-43; Chapter Project Scoring Rubric: 44; Skills Lab Worksheet: 58-60, 69-72 TECH: NSTA PDLink: scf-1210; PHSchool.com: cgp-1032, cgd-2011, scn-1213; Discovery Channel School Video Preview: 5; Discovery Channel School Video Field Trip: 18; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Flood! SE: 28</p> <p>Gold Rush! SE: 2</p>

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<p>6-8 PS2E - Solids, liquids, and gases differ in the motion of individual particles. In solids, particles are packed in a nearly rigid structure; in liquids, particles move around one another; and in gases, particles move almost independently.</p>	<p>Chemical Building Blocks SE/TE: 40-47, 48-54, 55-61; Key Terms:40, 48, 55; Target Reading Skills: 40, 48, 55; Discover Activity: 40, 48, 55; Try This Activity: 46, 50; Math Skill: 57; Math Analyzing Data: 52; Section Assessment: 47, 53, 61; At Home Activity: 47; Review Key Concepts: 47, 53, 61; Discovery Channel School Video Preview: 41 Discovery Channel School Video Field Trip: 59; Discovery Channel School Video Assessment:71 Writing in Science: 53 TE only: Differentiated Instruction: 41, 44, 49, 51, 58; Teach Key Concepts: 41, 45, 49, 51, 56, 58, 59, 60; Monitor Progress: 41, 45, 49, 51, 57, 59; Misconceptions: 40H, 50; Build Inquiry: 44, 56; Use Visuals: 43, 58; Teacher Demo: 44, 46, 50, 51, 57, 60; Reteach: 47, 53, 61; Performance Assessment: 41, 47, 53, 61; Help Students Read: 58 TR: All-In-One: Reading Strategy Transparency: K 10, 13; Guided Reading: 109-111, 116-118, 125-127; Transparencies: K9, 11, 12, 14, 15, 16; Section Summary: 108, 115, 124; Review and Reinforce: 112, 119, 128; Enrich: 113, 120, 129; Skills Lab Activity: 121-122 TECH: NSTA PDLINK: scf-1120; www.PHSchool.com: cgd-1022, cgp-1023; Discovery Channel School Video/DVD; Teacher Express CD; Student Edition on Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Volcano SE: 24-26</p>

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<p>6-8 PS2F - When substances within a closed system interact, the total mass of the system remains the same. This concept, called conservation of mass, applies to all physical and chemical changes.</p>	<p>Chemical Building Blocks SE/TE: 22-27; Discover Activity: 22; Terms: 22; Math Analyzing Data: 26; Skill Activity: 24; Target Reading Skills: 22; Writing in Science: 27 TE only: Differentiated Instruction: 23, 26; Monitor Progress: 23, 25, 27; Performance Assessment: 27; Teach Key Concept: 23, 24, 26; Teacher Demo: 24; Use Visuals: 25 TR: All-In-One: Guided Reading: 63-64; Transparency: K5, 6; Section Summary: 62; Review and Reinforce: 65; All-In-One: Enrich: 66 TECH: All-In-One: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p>
<p>Performance Expectations</p>	
<p>Students are expected to:</p>	
<p>Use characteristic intrinsic properties such as density, boiling point, and melting point to identify an unknown substance.</p>	<p>Chemical Interactions SE/TE: 32 TE only: Teach Key Concepts: 32 TECH: SciLinks.org: scn-1214 Chemical Building Blocks SE/TE: 10 TECH: SciLinks.org: scn-1111</p>
<p>Separate a mixture using differences in properties (e.g., solubility, size, magnetic attraction) of the substances used to make the mixture. Demonstrate that the properties of a compound are different from the properties of the reactants from which it was formed.</p>	<p>Chemical Building Blocks SE/TE:4-15; Discover Activity: 6; Key Terms: 6; Math Practice: 15; Math Skills: 12; Skill Activity: 8; Target Reading Skills: 6 TE: Address Misconceptions: 4G, 10; Build Inquiry: 8, 11, 13, 14; Differentiated Instruction: 7, 11, 13; Monitor Progress: 7, 9, 11, 13; Performance Assessment: 15; Teach Key Concept: 7, 10, 12; Use Visuals: 9, 11 TR: All-In-One: Guided Reading: 47-50; Transparency: K1; Section Summary: 46; Review and Reinforce: 50; Enrich: 51 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD</p> <p><u>EVENT-BASED-SCIENCE</u> Can be developed using the following Fraud SE:11-12 TG: 5-8 Gold Rush SE: 20-21</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
<p>Explain that all matter is made of atoms, and give examples of common elements—substances composed of just one kind of atom.</p>	<p>Chemical Building Blocks SE/TE:4-15; Discover Activity: 6; Key Terms: 6; Math Practice: 15; Math Skills: 12; Skill Activity: 8; Target Reading Skills: 6</p> <p>Environmental Science SE/TE: 12, 41, 69, 75, 94, 131, 143, 144-145, 183; Chapter Project: 41; Consumer Lab: 183; Design Your Own Lab: 144-145; Skills Lab: 12, 69, 75, 94, 131 TR: All-In-One: Lab Worksheets: 53-54, 134-136, 192-193, 253-254 TECH: Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Chemical Interactions SE/TE: 4-11, 12-21, 22-29, 30-35; Key Terms: 6; Target Reading Skills: 6; Discover Activity: 6 TE only: Differentiated Instruction: 7, 8; Use Visuals: 8, 9; Teacher Demo: 10; Review Key Concepts: 11; Reteach: 11; Teach Key Concepts: 7, 8; Monitor Progress: 7, 9; Help Students Read: 10 TR: All-In-One: Guided Reading: 53-55; Reading Strategy Transparency: L1, 2; Section Summary: 46; Review and Reinforce: 49; Enrich: 50 TECH: NSTA PDLink: scf-1210; PHSchool.com: cgp-1032, cgd-2011, scn-1213; Discovery Channel School Video Preview: 5; Discovery Channel School Video Field Trip: 18; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Gold Rush! SE: 4, 5, 6</p>

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<p>Demonstrate with a labeled diagram and explain the relationship among atoms, molecules, elements, and compounds.</p>	<p>Chemical Interactions SE/TE: 4-11, 12-21, 22-29, 30-35; Key Terms: 6; Target Reading Skills: 6; Discover Activity: 6; Writing in Science: 11; Section Assessment: 11; Figure: 14-15; Skills Activity: 15, 25; Discovery Channel School Video Field Trip: 18; Science and History: 18-19; Skills Lab: 21 TE only: Differentiated Instruction: 7, 8, 19; Background: 18; Use Visuals: 8, 9; Teacher Demo: 10, 18, 26; Review Key Concepts: 11, 27; Reteach: 11, 27; Performance Assessment: 27; Teach Key Concepts: 7, 8, 25, 26; Monitor Progress: 7, 9, 19, 25, 27; Help Students Read: 10; Build Inquiry: 24 TR: All-In-One: Guided Reading: 53-55; Reading Strategy Transparency: L1, 2; Section Summary: 46; Review and Reinforce: 49; Enrich: 50; Skills Lab Worksheet: 58-60 TECH: NSTA PDLINK: scf-1210; PHSchool.com: cgp-1032, cgd-2011, scn-1213; Discovery Channel School Video Preview: 5; Discovery Channel School Video Field Trip: 18; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Fraud SE: 9-11 Gold Rush SE: 2</p>

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<p>Describe how solids, liquids, and gases behave when put into a container (e.g., a gas fills the entire volume of the container). Relate these properties to the relative movement of the particles in the three states of matter.</p>	<p>Chemical Building Blocks SE/TE: 40-47, 48-54, 55-61; Key Terms:40, 48, 55; Target Reading Skills: 40, 48, 55; Discover Activity: 40, 48, 55; Try This Activity: 46, 50; Math Skill: 57; Math Analyzing Data: 52; Section Assessment: 47, 53, 61; At Home Activity: 47; Review Key Concepts: 47, 53, 61; Discovery Channel School Video Preview: 41; Discovery Channel School Video Field Trip: 59; Discovery Channel School Video Assessment:71; Writing in Science: 53 TE only: Differentiated Instruction: 41, 44, 49, 51, 58; Teach Key Concepts: 41, 45, 49, 51, 56, 58, 59, 60; Monitor Progress: 41, 45, 49, 51, 57, 59; Misconceptions: 40H, 50; Build Inquiry: 44, 56; Use Visuals: 43, 58; Teacher Demo: 44, 46, 50, 51, 57, 60; Reteach: 47, 53, 61; Performance Assessment: 41, 47, 53, 61; Help Students Read: 58 TR: All-In-One: Reading Strategy Transparency: K 10, 13; Guided Reading: 109-111, 116-118, 125-127; Transparencies: K9, 11, 12, 14, 15, 16; Section Summary: 108, 115, 124; Review and Reinforce: 112, 119, 128; Enrich: 113, 120, 129; Skills Lab Activity: 121-122 TECH: NSTA PDLINK: scf-1120; www.PHSchool.com: cgd-1022, cgp-1023; Discovery Channel School Video/DVD; Teacher Express CD; Student Edition on Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Fraud TG: 5-8</p>
<p>Apply the concept of conservation of mass to correctly predict changes in mass before and after chemical reactions, including reactions that occur in closed containers, and reactions that occur in open containers where a gas is given off.</p>	<p>Chemical Building Blocks SE/TE: 22-27; Discover Activity: 22; Terms: 22; Math Analyzing Data: 26; Skill Activity: 24; Target Reading Skills: 22; Writing in Science: 27 TE only: Differentiated Instruction: 23, 26; Monitor Progress: 23, 25, 27; Performance Assessment: 27; Teach Key Concept: 23, 24, 26; Teacher Demo: 24; Use Visuals: 25 TR: All-In-One: Guided Reading: 63-64; Transparency: K5, 6; Section Summary: 62; Review and Reinforce: 65; All-In-One: Enrich: 66 TECH: All-In-One: Lab Activity Video; Lab Zone; On-line Text; Presentation Express; Teacher Express</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
EALR 4: Physical Science	
Big Idea: Energy: Transfer, Transformation, and Conservation (PS3)	
Core Content: Interactions of Energy and Matter	
<p>In prior grades, students learned how heat, light, sound, and electrical energy are generated and can be transferred from place to place. In grades 6-8, students learn how energy and matter interact in various settings. Heat (thermal energy) always moves from a warmer to a cooler place through solids (by conduction) and through liquids and gases (mostly by convection or mechanical mixing). Light energy interacts with matter and with our eyes and allows us to see things. Electrical energy provides a convenient way to transfer energy to where and when the energy is needed. Sound is yet another form of energy produced by a vibrating object. These fundamental concepts of how matter and energy interact have broad application in all of the other sciences.</p>	
Content Standards	
Students know that:	
<p>6-8 PS3A - Energy exists in many forms: heat, light, chemical, electrical, motion of objects, and sound. Energy can be transformed from one form to another and transferred from one place to another.</p>	<p>Motion, Force and Energy SE/TE: 151-157; Key Terms: 151; Target Reading Skills: 151; Discover Activity: 151; Skills Lab: 156-157; Math Analyzing Data: 153; Section Assessment: 155; Writing in Science: 155 TE only: Differentiated Instruction: 152; Teacher Demo: 152; Teach Key Concepts: 152, 153; Monitor Progress: 153; Help Students Read: 154 TR: All-In-One: Key Term Review: 333; Reading Strategy Transparency: M47; Guided Reading: 303-304; Section Summary: 308; Review and Reinforce: 311; Enrich: 312; Skills Lab Worksheet: 313-315 TECH: NSTA PDLink: scf-1350; www.PHSchool.com: scn-1352, cgp-3053; Teacher Express CD; Student Express CD; Student Edition on Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! SE: 1, 2, 3, 7, 9, 18, 21, 34, 35 Fire! SE: 53 Global Warming? SE: 20 Thrill Ride! SE: 17, 24 TECH: Blackout!</p>

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<p>6-8 PS3B - Heat (thermal energy) flows from warmer to cooler objects until both reach the same temperature. Conduction, radiation, and convection, or mechanical mixing, are the means of heat transfer.</p>	<p>Motion, Force and Energy SE/TE: 183-189; Key Terms: 183; Target Reading Skills: 183; Discover Activity; 183; Skills Activity: 186; Skills Lab: 164-165, 188-189; Try This Activity: 184; Writing in Science: 187 TE only: Address Misconceptions: 144H, 162; Differentiated Instruction: 185; Teach Key Concepts: 159, 160, 161, 184, 186; Build Inquiry: 185; Figure: 185-186; Integrate Earth Science: 185; Monitor Process: 185; Section Assessment: 187; Review Key Concepts: 187; Reteach: 187 Performance Assessment: 187; Help Students Read: 184 TR: All-In-One: Reading Strategy Transparency: M54; Guided Reading: 318-320, 376-378; Section Summary; 375; Review and Reinforce: 379; PHSchool.com: scn-1362; Skills Lab Workbook: 323-326 TECH: Active Art: cgp-3053; SciLinks.org: scn-1352; Lab Activity Video/DVD; Lab Zone CD; Presentation Express CD; Teacher Express CD; Student Express CD; Student Edition on Audio CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! SE: 21 Fraud! SE: 29</p>

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<p>6-8 PS3C - Heat (thermal energy) consists of random motion and the vibrations of atoms and molecules. The higher the temperature, the greater the atomic or molecular motion. Thermal insulators are materials that resist the flow of heat.</p>	<p>Motion, Force and Energy SE/TE: 176-182; Key Terms: 176; Target Reading Skills: 176; Discover Activity: 176; Math Skills: 179; Math Practice: 181; Math Analyzing Data: 180; Section Assessment: 181; Math Analyzing Data: 180 TE only: Differentiated Instruction: 177, 180; Misconceptions: 174G, 179; Technology Lab: 182; Teacher Demo: 179, 192; Teach Key Concepts: 177, 178, 180, 191, 192, 193; Monitor Progress: 177, 179, 191, 192, 193; Review Key Concepts: 181, 194; Reteach: 181, 194; Performance Assessment: 175, 181, 191, 192, 193; Help Students Read: 178, 193 TR: All-In-One: Reading Strategy Transparency: M52; Technology Lab Worksheet: 372-373; Guided Reading: 367-369; Transparencies: M53; Sections Summary: 366; Review and Reinforce: 370; Enrich: 371 TECH: NSTA PDLink: sct-1360, up175; PHSchool.com: scn-1361; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! SE: 21</p>

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<p>6-8 PS3D - Visible light from the Sun is made up of a mixture of all colors of light. To see an object, light emitted or reflected by that object must enter the eye.</p>	<p>Human Biology SE/TE: 192-195; Key Terms: 192; Target Reading Skills: 192; Discover Activity: 192; Discovery Channel School Video Field Trip: 193; Try This Activity: 194 TE only: Differentiated Instruction: 193, 195; Teach Key Concepts: 193; Monitor Progress: 193, 195; Build Inquiry: 194; Teacher Demo: 194; Use Visuals: 195 TR: All-In-One: Guided Reading: 384-386; Transparencies: D55, 56; Section Summary: 383; Review and Reinforce: 387; Enrich: 388 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Sound and Light SE/TE: 125-128; Key Terms: 125; Target Reading Skills: 125; Discover Activity: 125; Try This Activity: 126; Figure: 127, 128; Section Assessment: 128; At Home Activity: 128 TE only: Teach Key Concepts: 126, 128; Address Misconceptions: 126; Differentiated Instruction: 127; Build Inquiry: 127; Monitor Progress: 127; Reviewing Key Concepts: 128; Reteach: 128; Performance Assessment: 128 TR: All-In-One: Guided Reading: 273-275; Transparencies: O51, 52; Section Summary: 272; Review and Reinforce: 276; Enrich: 277 TECH: PHSchool.com: cgd-5044; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 13 Thrill Ride! SE: 14</p>

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<p>6-8 PS3E - Energy from a variety of sources can be transformed into electrical energy, and then to almost any other form of energy. Electricity can also be distributed quickly to distant locations.</p>	<p>Electricity and Magnetism SE/TE: 94-101; Key Terms: 94; Target Reading Skills: 94; Discover Activity: 94; Science and History: 96-97; Reading Checkpoint: 99; Discovery Channel School Video Field Trip: 101; Section Assessment: 101; At Home Activity: 101 TE only: Address Misconceptions: 78F, 100; Differentiated Instruction: 95, 99; Teach Key Concepts: 95, 98, 99; Monitor Progress: 95, 97, 99; Teacher Demo: 97 Help Students Read: 96; Use Visuals: 100; Reviewing Key Concepts; 101; Reteach: 101 TR: All-In-One: Guided Reading: 94; Transparencies: N38-41; Section Summary: 214; Review and Reinforce: 219; Enrich: 220 TECH: Active Art: PHSchool.com: cgp-4033; Discovery Channel School Video CD; ; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! SE: 2, 7, 8, 9, 18, 34, 35</p>
<p>6-8 PS3F - Energy can be transferred from one place to another through waves. Waves include vibrations in materials. Sound and earthquake waves are examples. These and other waves move at different speeds in different materials.</p>	<p>Inside Earth SE/TE: 51-59; Key Concepts: 51; Target Reading Skills: 51; Discover Activity: 51; Skill Activity: 55; Skills Lab: 58-59; ; Figure: 53, 55; Section Assessment: 57; Writing in Science: 57 TE only: Differentiated Instruction: 53, 54; Build Inquiry: 55 Teacher Demo: 53; Teach Key Concepts: 52, 54, 56; Monitor Progress: 53, 55, 57; Math Analyzing Data: 56; Review Key Concepts: 57; Reteach: 57 TR: All-In-One: Reading Strategy Transparency: F16; Guided Reading: 129-131; Transparencies: F17; Section Summary: 128; Review and Reinforce: 132; Enrich: 133; Skills Lab Worksheet: 134-136 TECH: PHSchool.com: cfp-1022; Discovery Channel School Video Field Trip: 54; Student Edition on Audio CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel School Video / DVD; Online Text</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
(continued)	<p>(continued) Electricity and Magnetism SE/TE: 114-122; Key Terms: 114; Target Reading Skills: 114; Discover Activity: 114; Figure: 115; Reading Checkpoint: 117, 119; Math Analyzing Data: 118; Discovery Channel School Video Field Trip: 121; Section Assessment: 122; At Home Activity: 122 TE only: Differentiated Instruction: 115, 118; Teach Key Concept: 115, 116, 118, 120, 121; Use Visuals: 117, 119; Teacher Demo: 116; Monitor Progress: 115, 117, 119, 121, 122; Help Students Read: 120; Reviewing Key Concepts: 122; Reteach: 122; Performance Assessment: 122 TR: All-In-One: Guided Reading: 262-265; Transparencies: N46, 47; Section Summary: 261; Review and Reinforce: 266; Enrich: 267 TECH: Active Art: PHSchool.com: cgp-4042; Discovery Channel School Video CD; ; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! SE: 21</p>
Performance Expectations	
Students are expected to:	
<p>List different forms of energy (e.g., thermal, light, chemical, electrical, kinetic, and sound energy). Describe ways in which energy is transformed from one form to another and transferred from one place to another (e.g., chemical energy to electricity in a battery, electrical to light energy in a bulb).</p>	<p>Electricity and Magnetism SE/TE: 34-41, 60-66, 67-70, 85-89; Active Art: 64; At Home Activity: 41; Discover Activity: 34, 60, 67, 85; Key Terms: 34, 60, 67, 85; Target Reading Skill: 34, 60, 67, 85; Try This Activity: 38, 83, 86; Writing in Science: 84, 89; Math Practice: 62, 69, 70; Math Skills: 61; SciLinks: 37, 69, 88; Skills Activity: 35, 65; Discovery Channel School Video Preview: 34, 80; Discovery Channel School Video Field Trip: 40; Figure: 35, 37, 39, 40, 64, 65, 86, 88, 89 TE only: Address Misconceptions: 38; Build Inquiry: 82; Differentiated Instruction: 36, 63, 81, 87; All-in-One: Enrich: 41, 66, 70, 84; Teacher Demo: 36, 63, 64, 65, 88; Teach Key Concepts: 35, 36, 38, 40, 61, 68, 82, 83, 86, 87, 88; Use Visuals: 39, 81 TR: All-in-One: Guided Reading and Study Worksheet: 35, 61, 68, 81, 86; Monitor Progress: 35, 37, 39, 61, 63, 65, 66, 69, 70, 81, 83, 87, 89; Performance Assessment: 66, 70, 84, 89; Review and Reinforce: 41, 66, 70, 84; Section Summary: 41, 66, 70, 84</p>

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(continued)	<p>(continued)</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! SE: 1, 2, 8, 9, 21 Fire! SE: 53</p>
Use everyday examples of conduction, radiation, and convection, or mechanical mixing, to illustrate the transfer of heat energy from warmer objects to cooler ones, until the objects reach the same temperature.	<p>Motion, Force and Energy SE/TE: 176-182, 183-189; Key Terms: 176, 183; Target Reading Skills: 176, 183; Discover Activity: 176, 183; Skills Lab: 164-165; Math Skills: 179; Math Practice: 181; Math Analyzing Data: 180; Section Assessment: 181; Try This Activity: 184; Math Analyzing Data: 180; Writing in Science: 187 TE only: Differentiated Instruction: 177, 180, 188; Misconceptions: 174G, 179; Technology Lab: 182; Teacher Demo: 179, 192; Teach Key Concepts: 177, 178, 180, 191, 192, 193; Monitor Progress: 177, 179, 191, 192, 193; Review Key Concepts: 181, 194; Reteach: 181, 194; Performance Assessment: 175, 181, 187; Help Students Read: 178, 184 TR: All-In-One: Reading Strategy Transparency: M52; Technology Lab Worksheet: 372-373; Guided Reading: 367-369; Transparencies: M53; Sections Summary: 366; Review and Reinforce: 370; Enrich: 371 TECH: NSTA PDLINK: sct-1360, up175; PHSchool.com: scn-1361; Lab Activity Video; Lab Zone CD; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Global Warming SE: 9-10, Blackout SE: 21</p>
Explain how various types of insulation slow transfer of heat energy, based on the atomic-molecular model of heat (thermal energy).	<p>Motion, Force and Energy SE/TE: 188-189; Skills Lab: 188-189 TE only: Guide Inquiry; Troubleshooting the Experiment TR: All-In-One: Skills Lab Worksheet: 381-383 TECH: Lab Activity Video; Lab Zone CD; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p>

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<p>Describe how to demonstrate that visible light from the Sun is made up of different colors. Draw and label a diagram showing that to see an object, light must come directly from the object or from an external source reflected from the object, and enter the eye.</p>	<p>Human Biology SE/TE: 192-195; Key Terms: 192; Target Reading Skills: 192; Discover Activity: 192; Discovery Channel School Video Field Trip: 193; Try This Activity: 194 TE only: Differentiated Instruction: 193, 195; Teach Key Concepts: 193; Monitor Progress: 193, 195; Build Inquiry: 194; Teacher Demo: 194; Use Visuals: 195 TR: All-In-One: Guided Reading: 384-386; Transparencies: D55, 56; Section Summary: 383; Review and Reinforce: 387; Enrich: 388 TECH: On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD</p> <p>Sound and Light SE/TE: 74-75, 125-128; Key Terms: 125; Target Reading Skills: 125; Discover Activity: 125; Try This Activity: 126; Figure: 127, 128; Section Assessment: 128; At Home Activity: 128 TE only: Teach Key Concepts: 75, 126, 128; Address Misconceptions: 126; Differentiated Instruction: 75 127; Build Inquiry: 127; Monitor Progress: 75, 127; Reviewing Key Concepts: 128; Reteach: 128; Performance Assessment: 128 TR: All-In-One: Guided Reading: 273-275; Transparencies: O51, 52; Section Summary: 272; Review and Reinforce: 276; Enrich: 277 TECH: PHSchool.com: cgd-5044; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p> <p>Astronomy SE/TE: 119</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Thrill Ride SE: 14</p>

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<p>Illustrate the transformations of energy in an electric circuit when heat, light, and sound are produced. Describe the transformation of energy in a battery within an electric circuit.</p>	<p>Electricity and Magnetism SE/TE: 54-57; Key Terms: 54; Target Reading Skills: 54; Discover Activity: 54; Reading Checkpoint: 55, 56 TE only: Differentiated Instruction: 55; Teach Key Concept: 55, 56; Monitor Progress: 55, 57; Build Inquiry: 56; Reviewing Key Concepts: 57; Reteach: 57; Performance Assessment: 57 TR: All-In-One: Guided Reading: 129-131; Transparencies: N19, 20; Section Summary: 128; Review and Reinforce: 132; Enrich: 133 TECH: PHSchool.com: cgd-4034; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p> <p><u>EVENT-BASED SCIENCE</u> Blackout! SE: 10, 11, 30, 31</p> <p>Fraud! SE: 30</p>
<p>Contrast a light wave with a sound wave by identifying that both have characteristic wavelengths, but light waves can travel through a vacuum while sound waves cannot. Explain that sound results from the vibration of an object.</p>	<p>Sound and Light SE/TE: 36-41, 70-73,; Key Terms: 36, 70; Target Reading Skills: 36, 70; Discover Activity: 36, 70; Try This Activity: 73; At Home Activity: 41, 73; Math Analyzing Data: 39; Build Inquiry: 72; Help Students Read: 38, 40; Using Visual: 45; Math Skill: 8; Section Assessment: 41, 73 TE only: Differentiated Instruction: 36, 39, 71; Monitor Progress; 36, 39, 41, 71, 73; Teach Key Concepts: 37, 38, 39, 43, 71, 72; Teacher Demo; 37, 40; ; Reviewing Key Concepts: 41, 73; Reteach: 41, 73; Performance Assessment; 41, 73 TR: All-In-One: Transparency: 08, 15, 19, 28; Guided Reading: 113-115, 183-184; Transparencies: 20, 21, 29, 31; Section Summary: 112, 182 ; Review and Reinforce: 116, 185; Enrich: 117, 186; Skills Lab Worksheets: 69-71 TECH: www.SciLinks.org: scn-1521, scn-1531 Lab Zone CD; Lab Activity Video/ DVD; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p>

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EALR 4: Earth and Space Science	
Big Idea: Earth and Space (ES1)	
Core Content: The Solar System	
<p>In prior years, students learned the implications of the spherical-Earth concept and Earth's relationship to the Sun. In grades 6-8, students study the Moon's changing phases and learn to distinguish between phases and eclipses. They also learn about other objects in the Solar System, and how they are held together by a force called —gravity. □ Students also learn about the Sun's position in the Milky Way, which is just one of many galaxies in the universe. This broad overview of Earth in space will provide a useful framework for students to understand new discoveries in Astronomy and new milestones in the exploration of space.</p>	
Content Standards	
Students know that:	
<p>6-8 ES1A - The Moon's monthly cycle of phases can be explained by its changing relative position as it orbits Earth. An eclipse of the Moon occurs when the Moon enters Earth's shadow. An eclipse of the Sun occurs when the Moon is between the Earth and Sun, and the Moon's shadow falls on the Earth.</p>	<p>Astronomy SE/TE: 20-29; At Home Activity: 27; Discover Activity: 20; Key Terms: 20; Skills Activity: 24; Skills Lab: 28-29; Target Reading Skills: 20 TE only: Address Misconceptions: 12; Background: 22, 25; Build Inquiry: 25; Differentiated Instruction: 21, 23, 25; Monitor Progress: 21, 23, 25, 27; Teach Key Concept: 21, 22, 23, 26; Teacher Demo: 26; Use Visuals: 24 TR: All-In-One: Guided Reading: 63-66; Transparencies: J8-11; Skill Lab Worksheet: 69-70; Section Summary: 62; Review and Reinforce: 67; Enrich: 68 TECH: PHSchool.com: cfp-5013; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p> <p><u>EVENT-BASED SCIENCE</u> Asteroid! SE: 28, 29</p>

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(Grades 6-8)**

The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
<p>6-8 ES1B - Earth is the third planet from the sun in a system that includes the Moon, the Sun, seven other major planets and their moons, and smaller objects, such as asteroids, plutoids, and comets. These bodies differ in many characteristics (e.g., size, composition, relative position).</p>	<p>Astronomy SE/TE: 84-93- 94-103; Key Terms: 84; Target Reading Skills: 84, 94; Discover Activity: 84; Figure: 85; Science and Society: 92-93; Try This Activity: 88, 90; Skill; Discovery Channel School Video Field Trip: 90; Skills Lab: 83; Section Assessment: 91; Writing in Science: 91 TE only: Differentiated Instruction: 85, 86, 89; Misconceptions: 89; Build Inquiry: 86, 88, 90; Use Visuals: 88, 95; Teach Key Concepts: 85, 86, 87, 89; Monitor Progress: 85, 87, 89; Review Key Concepts: 91; Reteach: 91; Performance Assessment: 91; Help Students Read: 87 TR: All-In-One: Reading Strategy Transparency: J25; Guided Reading: 188-191; Transparencies: J32; Section Summary: 187; Review and Reinforce: 192; Enrich: 193; Skills lab Worksheet: 184-185 TECH: PHSchool.com: cfh-5030, ced-5034; Discovery Channel School Video/DVD; Teacher Express CD; Student Edition on Audio CD; Presentation Express CD; Lab Zone CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Asteroid! SE: 4, 12, 13, 20, 32, 33, 34, 37, 45, 47, 48, 49</p> <p>Toxic Spill! SE: 21</p> <p>Volcano! SE: 52, 53</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
<p>6-8 ES1C - Most objects in the Solar System are in regular and predictable motion. These motions explain such phenomena as the day, the year, phases of the moon, and eclipses.</p>	<p>Astronomy SE/TE: 20-29; At Home Activity: 27; Discover Activity: 20; Key Terms: 20; Skills Activity: 24; Skills Lab: 28-29; Target Reading Skills: 20 TE only: Address Misconceptions: 12; Background: 22, 25; Build Inquiry: 25; Differentiated Instruction: 21, 23, 25; Monitor Progress: 21, 23, 25, 27; Teach Key Concept: 21, 22, 23, 26; Teacher Demo: 26; Use Visuals: 24 TR: All-In-One: Guided Reading: 63-66; Transparencies: J8-11; Skill Lab Worksheet: 69-70; Section Summary: 62; Review and Reinforce: 67; Enrich; 68 TECH: PHSchool.com: cfp-5013; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p> <p><u>EVENT-BASED SCIENCE</u> Asteroid! SE: 15, 20, 21</p> <p>Global Warming? SE: 46, 47</p>
<p>6-8 ES1D - Gravity is the force that keeps planets in orbit around the Sun and governs the rest of the motion in the Solar System. Gravity alone holds us to the Earth's surface.</p>	<p>Astronomy SE/TE: 16-19; Key Terms: 16; Target Reading Skills: 16; Discover Activity: 16; Math Analyzing Data: 18; Teacher Demo: 19; Writing in Science: 19; Section Assessment: 19 TE only: Differentiated Instruction: 17; Monitor Progress: 17; Teach Key Concepts: 17, 18; Reviewing Key Concept: 19; Reteach: 19 TR: All-In-One: Reading Strategy Transparency: J4; Guided Reading: 57-58; Transparencies: J5, 6; Section Summary: 56; Review and Reinforce: 59; Enrich: 60 TECH: www.SciLinks.com: scn-0612; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p> <p><u>EVENT-BASED SCIENCE</u> Asteroid! SE: 11, 22</p> <p>Thrill Ride! SE: 32</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
<p>6-8 ES1E - Our Sun is one of hundreds of billions of stars in the Milky Way galaxy. Many of these stars have planets orbiting around them. The Milky Way galaxy is one of hundreds of billions of galaxies in the universe.</p>	<p>Astronomy SE/TE: 141-147; Discover Activity: 141; Key Terms: 141; Math Practice: 147; Math Skills: 146; Target Reading Skills: 141; Try This Activity: 145; Section Assessment: 147 TE only: Differentiated Instruction: 143, 144; Monitor Progress: 143, 145, 146; Teach Key Concepts: 142, 144, 145, 146; Teacher Demo: 143; Help Students Read: 142, 144, 145; Reviewing Key Concept: 147; Reteach: 147; Performance Assessment: 147 TR: All-In-One: Guided Reading: 279-281; Section Summary: 278; Review and Reinforce: 282; Enrich: 283; Transparency: J36 TECH: SciLinks.com: scn-0644; Lab Activity Video/DVD; Lab Zone CD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD</p> <p><u>EVENT-BASED SCIENCE</u> Asteroid! SE: 22</p> <p>TECH: Blackout!</p>
<p>Performance Expectations Students are expected to:</p>	
<p>Use a physical model or diagram to explain how the Moon's changing position in its orbit results in the changing phases of the Moon as observed from Earth. Explain how the cause of an eclipse of the Moon is different from the cause of the Moon's phases.</p>	<p>Astronomy SE/TE: 20-29; At Home Activity: 27; Discover Activity: 20; Key Terms: 20; Skills Activity: 24; Skills Lab: 28-29; Target Reading Skills: 20 TE only: Address Misconceptions: 12; Background: 22, 25; Build Inquiry: 25; Differentiated Instruction: 21, 23, 25; Monitor Progress: 21, 23, 25, 27; Teach Key Concept: 21, 22, 23, 26; Teacher Demo: 26; Use Visuals: 24 TR: All-In-One: Guided Reading: 63-66; Transparencies: J8-11; Skill Lab Worksheet: 69-70; Section Summary: 62; Review and Reinforce: 67; Enrich: 68 TECH: PHSchool.com: cfp-5013; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
<p>Compare the relative sizes and distances of the Sun, Moon, Earth, other major planets, moons, asteroids, plutoids, and comets.</p>	<p>Astronomy SE/TE: 84-93- 94-103; Key Terms: 84; Target Reading Skills: 84, 94; Discover Activity: 84; Figure: 85; Science and Society: 92-93; Try This Activity: 88, 90; Skill; Discovery Channel School Video Field Trip: 90; Skills Lab: 83; Section Assessment: 91; Writing in Science: 91 TE only: Differentiated Instruction: 85, 86, 89; Misconceptions: 89; Build Inquiry: 86, 88, 90; Use Visuals: 88, 95; Teach Key Concepts: 85, 86, 87, 89; Monitor Progress: 85, 87, 89; Review Key Concepts: 91; Reteach: 91; Performance Assessment: 91; Help Students Read: 87 TR: All-In-One: Reading Strategy Transparency: J25; Guided Reading: 188-191; Transparencies: J32; Section Summary: 187; Review and Reinforce: 192; Enrich: 193; Skills lab Worksheet: 184-185 TECH: PHSchool.com: cfh-5030, ced-5034; Discovery Channel School Video/DVD; Teacher Express CD; Student Edition on Audio CD; Presentation Express CD; Lab Zone CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u> Asteroid! SE: 20</p>
<p>Use a simple physical model of the Earth, Sun, Moon system or labeled drawing to explain day and night, phases of the Moon, and eclipses of the Moon and Sun.</p>	<p>Astronomy SE/TE: 20-29; At Home Activity: 27; Discover Activity: 20; Key Terms: 20; Skills Activity: 24; Skills Lab: 28-29; Target Reading Skills: 20 TE only: Address Misconceptions: 12; Background: 22, 25; Build Inquiry: 25; Differentiated Instruction: 21, 23, 25; Monitor Progress: 21, 23, 25, 27; Teach Key Concept: 21, 22, 23, 26; Teacher Demo: 26; Use Visuals: 24 TR: All-In-One: Guided Reading: 63-66; Transparencies: J8-11; Skill Lab Worksheet: 69-70; Section Summary: 62; Review and Reinforce: 67; Enrich: 68 TECH: PHSchool.com: cfp-5013; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p>

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<p>Predict what would happen to an orbiting object if gravity were increased, decreased, or taken away.</p>	<p>Astronomy SE/TE: 16-19; Key Terms: 16; Target Reading Skills: 16; Discover Activity: 16; Math Analyzing Data: 18; Teacher Demo: 19; Writing in Science: 19; Section Assessment: 19 TE only: Differentiated Instruction: 17; Monitor Progress: 17; Teach Key Concepts: 17, 18; Reviewing Key Concept: 19; Reteach: 19 TR: All-In-One: Reading Strategy Transparency: J4; Guided Reading: 57-58; Transparencies: J5, 6; Section Summary: 56; Review and Reinforce: 59; Enrich: 60 TECH: www.SciLinks.com: scn-0612; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Thrill Ride SE: 14 ,24, 32, 47</p>
<p>Construct a physical model or diagram showing Earth's position in the Solar System, the Solar System's position in the Milky Way, and the Milky Way among other galaxies.</p>	<p>Astronomy SE/TE: 4-15; Key Terms: 6; Target Reading Skills: 6; Discover: 6; Chapter Project: 5; Skills Lab: 14-15; Section Assessment: 13 TE only: Differentiated Instruction: 7, 8, 11; Try This Activity: 10 Teach Key Concepts: 7; Teacher Demo: 8; Address Misconceptions: 4G, 12; Build Inquiry; 12; Monitor Progress: 7, 9; Performance Assessment: 5. 13; Background: 8; Review Key Concepts: 13, 17; Reteach: 13 TR: All-In-One: Skills Lab Worksheet: 52-54, 69-70; Reading Strategy Transparency: J1, 4; Guided Reading: 63-66; Transparency: J2, 3, 5; Section Summary: 46; Review and Reinforce: 50; Enrich: 51 TECH: PHSchool.com: cfp-5012; NSTA PDLinks: scf-0610; Discovery Channel School Video Preview: 5; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Asteroid TG: 8-11 SE: 20, 22</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
EALR 4: Earth and Space Science	
Big Idea: Earth Systems, Structures, and Processes (ES2)	
Core Content: Cycles in Earth Systems	
In prior grades, students learned how Earth materials change and how they can be used for various purposes. In grades 6-8, students learn about planet Earth as an interacting system of solids, liquids, and gases. Solar energy powers the water cycle and drives the weather system and ocean currents. Energy from within the planet drives the rock cycle and moves huge plates on the Earth's surface, causing earthquakes, volcanoes. The landforms we see result from processes that build up and break down Earth structures. These foundational ideas will enable students to understand the history of their planet, Earth processes occurring today, and future geologic events.	
Content Standards	
Students know that:	
6-8 ES2A - The atmosphere is a mixture of nitrogen, oxygen, and trace gases that include water vapor. The atmosphere has different properties at different elevations.	<p>Weather and Climate SE/TE: 4-9, 10- 15, 16- 21; Key Terms: 5, 10, 16; Target Reading Skills: 5, 10, 16; Discover Activity; 5, 10, 16; Try This Activity: 8, 12; Skills Lab: 15; Discovery Channel School Video Preview: 5; Discovery Channel School Video Field Trip: 14; Tech and Design in History: 18-19; Writing in Science: 9, 19, 21 TE only: Differentiated Instruction: 7, 11, 13, 17; Teach Key Concepts: 7, 8, 11, 12, 13, 18, 19, 20; Monitor Progress: 7, 11, 13, 17; Help Students Read: 7; Build Inquiry: 8, 13, 18; Reviewing Key Concepts: 9, 14, 21; Reteach: 9, 14, 21; Performance Assessment: 9; Use Visuals: 12, 17; Integrating Life Science: 14; Address Misconceptions: 4H, 19 TR: All-In- One: Skills Lab Worksheets: 59-60; Reading Strategy Transparency: 11, 3, 6; Guided Reading: 47-49, 54-56, 63-65; Transparency: 12, 4, 5, 7; Section Summary: 46, 53, 62; Review and Reinforce: 50, 57, 66; Enrich: 51, 58, 67 TECH: PD Links: scf-0820; www.scilinks.com: scn-0911; www.phschool.com: cfp-0412</p> <p><u>EVENT-BASED SCIENCE</u> Fire! SE: 24 Global Warming? SE: 10 Hurricane! SE: 7</p>

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<p>6-8 ES2B - The Sun is the major source of energy for phenomena on Earth's surface, such as winds, ocean currents, and the water cycle.</p>	<p>Weather and Climate SE/TE: 36-41, 46-53; Key Terms: 36,46; Target Reading Skills: 36, 46; Discover Activity: 36, 46; Section Assessment: 39; Technology Lab:53; At Home Activity: 39 TE only: Differentiated Instruction: 37, 49, 51; Figure: 37; Teacher Demo: 38, 51; Skills Lab: 40-41; Teach Key Concepts: 37, 38, 39, 47, 48, 49, 50; Monitor Progress: 37, 39, 47, 49, 51, 52; Teacher Demo: 49; Review Key Concepts: 39, 52; Reteach: 39, 52; Performance Assessment: 35; Help Students Read: 48 TR: All-In-One: Key Term Review: I10, 13; Reading Strategy Transparency: I22; Guided Reading: 109-111, 126-128; Section Summary: 108, 125; Review and Reinforce: 112, 129; Enrich: 113, 130; Technology Lab Worksheet: 131-132 TECH: NSTA PDLINK: scf-0920; PHSchool.com: scn-0921, scn-0922, cfp-4024, scn-0925; Discovery Channel School Video Preview: Discovery Channel School Video Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Flood! SE: 8 Hurricane! SE: 8, 9, 19, 37 Oil Spill! SE: 13, 14 Tornado! SE: 3 TECH: Blackout!</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
<p>6-8 ES2C - In the water cycle, water evaporates from Earth's surface, rises and cools, forms clouds, then condenses and falls as rain or snow, and collects in bodies of water.</p>	<p>Weather and Climate SE/TE: 54-60; Key Terms: 54; Target Reading Skills: 54; Discover Activity: 54; Technology Lab: 53; Skills Lab: 40-41; Math Analyzing Data: 56; Teach Key Concepts: 55, 57, 58; Monitor Progress: 55, 57, 59; Section Assessment: 60; At Home Activity: 60 TE only: Differentiated Instruction: 55, 57, 59; Build Inquiry: 55; Teacher Demo: 59; Review Key Concepts: 60; Reteach: 39, 45, 60, 65; Performance Assessment: 60 TR: All-In-One: Key Term Review: 112, 14, 18; Reading Strategy Transparency: 122; Guided Reading: 135-137; Section Summary: 134; Review and Reinforce: 138; Enrich: 139 TECH: NSTA PDLINK: scf-0920; PHSchool.com: scn-0922; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Flood! SE: 8 Hurricane! SE: 17, 28, 29, 38 Tornado! SE: 42, 43 Toxic Spill! SE: 30</p>
<p>6-8 ES2D - Water is a solvent. As it passes through the water cycle, it dissolves minerals and gases and carries them to the oceans.</p>	<p>Weather and Climate SE/TE: 54-60; Key Terms: 54; Target Reading Skills: 54; Discover Activity: 54; Technology Lab: 53; Skills Lab: 40-41; Math Analyzing Data: 56; Teach Key Concepts: 55, 57, 58; Monitor Progress: 55, 57, 59; Section Assessment: 60; At Home Activity: 60 TE only: Differentiated Instruction: 55, 57, 59; Build Inquiry: 55; Teacher Demo: 59; Review Key Concepts: 60; Reteach: 39, 45, 60, 65; Performance Assessment: 60 TR: All-In-One: Key Term Review: 112, 14, 18; Reading Strategy Transparency: 122; Guided Reading: 135-137; Section Summary: 134; Review and Reinforce: 138; Enrich: 139 TECH: NSTA PDLINK: scf-0920; PHSchool.com: scn-0922; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p>

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(continued)	<p>(continued)</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following</p> <p>Toxic Leak SE: 30</p> <p>Tornado SE: 43</p> <p>Hurricane SE: 38</p> <p>Flood SE: 8-9</p>
6-8 ES2E - The solid Earth is composed of a relatively thin crust, a dense metallic core, and a layer called the mantle between the crust and core that is very hot and partially melted.	<p>Inside Earth SE/TE: 4-13, 14-17; Key Terms: 6, 14; Target Reading Skills: 6, 14; Discover Activity: 6, 14; Skill Activity: 11; Math Analyzing Data: 12; Writing in Science: 13 TE only: Differentiated Instruction: 7, 9; Misconceptions: 4H, 8; Build Inquiry: 8; Figure: 10-11; Use Visuals: 7; Teacher Demo: 10; Teach Key Concepts: 7, 9, 10, 11, 12; Monitor Progress: 7, 9, 11; Section Assessment: 13; Review Key Concepts: 13; Reteach: 13; Performance Assessment: 5, 13; Help Students Read: 10 TR: All-In-One: Reading Strategy Transparency: F1, 3; Guided Reading: 47-50, 55-57; Transparencies: F2, 4; Section Summary: 46, 54; Review and Reinforce: 53, 58; Enrich: 51, 59 TECH: NSTA PDLINK: scf-1010; PHSchool.com: scn-1011, cdf-1012; Discovery Channel Student Video Preview: 5; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Earthquake! SE: 13</p> <p>Volcano! SE: 19</p>

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<p>6-8 ES2F - The crust is composed of huge crustal plates on the scale of continents and oceans, which move centimeters per year, pushed by convection in the upper mantle, causing earthquakes, volcanoes, and mountains.</p>	<p>Inside Earth SE/TE: 23-31, 32-41; Key Terms: 23, 32; Target Reading Skills: 23, 32; Discover Activity: 23, 32; Skills Lab: 30-31, 37; Math Problem: 35; Section Assessment: 22, 29, 36; Writing in Science: 29, 39; Think Critically: 40 TE only: Differentiated Instruction: 25, 35; Use Visuals: 34; Teacher Demo: 33; Build Inquiry: 24, 27; Math Practice: 36; Teach Key Concepts: 24, 25, 26, 28, 33, 34; Monitor Progress: 25, 27, 33, 35;; Review Key Concepts: 29, 36; Reteach: 29, 36; Performance Assessment: 29, 36 TR: All-in-One Guided Reading: 79-81; Section Summary: 78; Review and Reinforce: 82; Enrich: 83 TECH: NSTA www.SciLinks.org/PDLink: scf-1010; www.PHSchool.com: cdf-1014, cfp-1015; Student Edition on Audio CD; Lab Activity Video/DVD; Lab Zone CD; Presentation Express CD; Teacher Express CD; Student Express CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u> Earthquake! SE: 10, 11, 13, 16, 17</p> <p>Volcano! SE: 19, 20</p>

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<p>6-8 ES2G - Landforms are created by processes that build up structures and processes that break down and carry away material through erosion and weathering.</p>	<p>Earth's Changing Surface SE/TE: 36-47, 48-55; Key Terms: 36, 48; Target Reading Skills; 36, 48; Discover Activity: 36, 48; Chapter Project: 37; Figure: 42; Skills Lab: 46-47; Consumer Lab: 55; At Home Activity: 44; Writing in Science: 54 TE only: Differentiated Instruction: 39, 41, 49, 50, 53; Misconceptions: 36F, 43; Build Inquiry: 50, 53; Use Visuals: 42, 49, 51, 52; Teacher Demo: 40, 43; Try This Activity: 43, 51; Teach Key Concept: 39, 40, 42, 44, 49, 50, 51, 52; Monitor Progress: 39, 41, 43, 49, 51, 53, 54; Math Analyzing Data: 44; Section Assessment: 45, 54; Review Key Concepts: 45, 54; Reteach: 45, 54; Performance Assessment: 37, 45, 54; Help Students Read; 41, 53 TR: All-In-One: Key Term Review: 137; Transparency: G 37, 12, 13; Reading Strategy Transparency: G11; Performance Assessment Teacher Notes; 144; Performance Assessment Scoring 145; Performance Assessment Student Worksheet: 146; Chapter Test: 147-150; Chapter Project Teacher Note: 102-103; Chapter Project Student Overview: 104-105; Chapter Project Student Worksheet: 106-107; Chapter Project Scoring Rubric: 108; Guided Reading: 111-114, 122-125; Section Summary: 110, 121; Review and Reinforce: 115, 126; Enrich: 116, 127; Skills Lab Worksheet: 117-119; Consumer Lab Worksheet: 128-129 TECH: NSTA PDLINK: scf-0720; PHSchool.com: cfd-2021, cfp-2022; Discovery Channel Student Video Preview: 37; Student Edition on Audio CD; Lab Activity Video/DVD; Lab Zone CD; Presentation Express CD; Teacher Express CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Flood! SE: 16, 17, 18, 19, 32</p> <p>Toxic Spill! SE: 29</p>

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<p>6-8 ES2H - The rock cycle describes the formation of igneous rock from magma or lava, sedimentary rock from compaction of eroded particles, and metamorphic rock by heating and pressure.</p>	<p>Inside Earth SE/TE: 164-167; Key Terms: 164; Target Reading Skills: 164; Discover Activity: 164; Design Your Own Lab: 167; Writing in Science: 166; Section Assessment: 166 TE only: Differentiated Instruction: 165; Monitor Progress: 165; Teach Key Concepts: 165, 166; Reviewing Key Concepts: 166; Reteach: 166 TR: All-In-One: Design Your Own Lab: 355-356; Guided Reading: 351-352; Section Summary: 350; Review and Reinforce: 353; Enrich: 354; Transparency: F51 TECH: Active Art: cfp-1056; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD; Student Express CD; Online Textbook; Lab Activity Video; Lab Zone CD</p> <p><u>EVENT-BASED SCIENCE</u> Gold Rush! SE: 22</p> <p>Volcano! SE: 38</p>
<p>Performance Expectations Students are expected to:</p>	
<p>Describe the composition and properties of the troposphere and stratosphere.</p>	<p>Weather and Climate SE/TE: 16-21; Discover Activity: 16; Key Terms: 16; Math Analyzing Data: 20; Target Reading Skills: 16; Figure: 17; Tech and Design in History: 18-19; Writing in Science: 19, 21 TE only: Address Misconceptions: 4H, 19; Build Inquiry: 18; Differentiated Instruction: 17, 18; Monitor Progress: 17, 21; Teach Key Concept: 18, 19, 20; Use Visuals: 17 TR: All-In-One: Guided Reading: 63-65; All-In-One: Transparency: I7; All-In-One: Section Summary: 62; All-In-One: Review and Reinforce: 66; All-In-One: Enrich: 67 TECH: Student Edition on Audio CD; Presentation Express CD; Teacher Express CD; Online Textbook</p>

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<p>Connect the uneven heating of Earth's surface by the Sun to global wind and ocean currents. Describe the role of the Sun in the water cycle.</p>	<p>Earth's Water SE/TE: 116-127; Key Terms: 116; Target Reading Strategies: 116; Discover Activity: 116; Figure: 117; Skill Activity: 118; Skills Lab: 122-123; Section Assessment: 121; Discovery Channel School Video Assessment: 125; At Home Activity: 121; Writing in Science: 125; Think Critically: 126; Standardized Test Prep: 126 TE only: Differentiated Instruction; 117, 119; Teacher Demo: 119; Teach Key Concepts: 117, 120; Monitor Progress: 117, 119; Review Key Concepts: 121; Reteach: 121; Performance Assessment: 121; Help Students Read: 118 TR: All-In-one: Reading Strategy Transparency: H37; Transparencies: H38, 39, 40; Guided Reading: 218-221; Section Summary: 217; Review and Reinforce: 222; Enrich: 223 TECH: NSTA www.SciLinks.org/PDLink: scf-0830; www.PHSchool.com; scn-0834; Teacher Express CD; Student Express CD; Presentation Express CD; Student Edition on Audio CD; Discovery Channel Video / DVD; Lab Zone CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u> Oil Spill! SE: 13</p> <p>Tornado! SE: 3</p>
<p>Describe the water cycle and give local examples of where parts of the water cycle can be seen.</p>	<p>Weather and Climate SE/TE: 54-60; Key Terms: 54; Target Reading Skills: 54; Discover Activity: 54; Technology Lab: 53; Skills Lab: 40-41; Math Analyzing Data: 56; Teach Key Concepts: 55, 57, 58; Monitor Progress: 55, 57, 59; Section Assessment: 60; At Home Activity: 60 TE only: Differentiated Instruction: 55, 57, 59; Build Inquiry: 55; Teacher Demo: 59; Review Key Concepts: 60; Reteach: 39, 45, 60, 65; Performance Assessment: 60 TR: All-In-One: Key Term Review: 112, 14, 18; Reading Strategy Transparency: 122; Guided Reading: 135-137; Section Summary: 134; Review and Reinforce: 138; Enrich: 139 TECH: NSTA PDLink: scf-0920; PHSchool.com: scn-0922; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD; Online Text Discovery Channel Video / DVD; Lab Zone CD</p>

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(continued)	<p>(continued) <u>EVENT-BASED SCIENCE</u> Can be developed using the following</p> <p>Toxic Leak SE: 30</p> <p>Tornado SE: 43</p> <p>Hurricane SE: 38</p> <p>Flood SE: 8-9</p>
Distinguish between bodies of saltwater and fresh water and explain how saltwater become salty.	<p>Earth's Waters SE/TE: 146-149; Discover Activity: 146; Key Terms: 146; Target Reading Skills: 146 TE: Build Inquiry: 148; Differentiated Instruction: 147, 148; Monitor Progress: 147, 149; Teach Key Concepts: 147, 148 TR: All-In-One: Guided Reading 274-275; Transparency: H51; Section Summary: 277; Enrich: 278 TECH: PHSchool.com: cfd-3043; Teacher Express CD; Presentation Express CD; Student Edition on Audio CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Oil Spill! SE: 13, 28, 35</p>
Sketch and label the major layers of Earth, showing the approximate relative thicknesses and consistency of the crust, core, and mantle.	<p>Inside Earth SE/TE: 4-13, 14-17; Key Terms: 6, 14; Target Reading Skills: 6, 14; Discover Activity: 6, 14; Skill Activity: 11; Math Analyzing Data: 12; Writing in Science: 13 TE only: Differentiated Instruction: 7, 9; Misconceptions: 4H, 8; Build Inquiry: 8; Figure: 10-11; Use Visuals: 7; Teacher Demo: 10; Teach Key Concepts: 7, 9, 10, 11, 12; Monitor Progress: 7, 9, 11; Section Assessment: 13; Review Key Concepts: 13; Reteach: 13; Performance Assessment: 5, 13; Help Students Read: 10 TR: All-In-One: Reading Strategy Transparency: F1, 3; Guided Reading: 47-50, 55-57; Transparencies; F2, 4; Section Summary: 46, 54; Review and Reinforce: 53, 58; Enrich: 51, 59 TECH: NSTA PDLink: scf-1010; PHSchool.com: scn-1011, cdf-1012; Discovery Channel Student Video Preview: 5; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD; Online Text</p>

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(continued)	<p>(continued)</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following</p> <p>Earthquake SE: 13, 16</p> <p>Gold Rush SE: 22</p> <p>Oil Spill</p> <p>Volcano SE: 19</p>
<p>Draw a labeled diagram showing how convection in the upper mantle drives movement of crustal plates. Describe what may happen when plate boundaries meet (e.g., earthquakes, tsunamis, faults, mountain building), with examples from the Pacific Northwest.</p>	<p>Inside Earth SE/TE: 14-17; Key Terms: 14; Target Reading Skills: 14; Discover Activity: 14; Figure: 10-11; Section Assessment: 13</p> <p>TE only: Differentiated Instruction: 7, 9; Misconceptions: 4H, 8; Build Inquiry: 8; Use Visuals: 7; Teacher Demo: 10; Teach Key Concepts: 7, 9, 10, 11, 12; Monitor Progress: 7, 9, 11; Review Key Concepts: 13; Reteach: 13; Performance Assessment: 5, 13; Help Students Read: 10</p> <p>TR: All-In-One: Reading Strategy Transparency: F1, 3; Guided Reading: 47-50, 55-57; Transparencies: F2, 4; Section Summary: 46, 54; Review and Reinforce: 53, 58; Enrich: 51, 59</p> <p>TECH: PHSchool.com:cdf-1012; Discovery Channel Student Video Preview: 5; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following</p> <p>Earthquake SE: 13, 16-17</p> <p>Volcano SE: 19, 20, 22</p>

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<p>Explain how a given landform (e.g. mountain) has been shaped by processes that build up structures (e.g., uplift) and by processes that break down and carry away material (e.g., weathering and erosion).</p>	<p>Inside Earth Book: F SE/TE: 44-50, 82-86; Key Terms: 44, 82; Target Reading Skills: 44, 82; Discover Activity: 44, 82; ; Figure: 45, 46-47, 48, 49, 84; Try This Activity: 48, 85; Skills Lab: 86; Math Analyzing Data: 47; Section Assessment: 50, 85; At Home Activity: 50; Writing in Science: 85 TE only: Differentiated Instruction: 45, 46, 83; Build Inquiry: 47 Use Visuals: 46, 83; Teacher Demo: 49, 84;; Teach Key Concepts: 45, 46, 48, 83, 84; Monitor Progress: 45, 49, 83; Review Key Concepts: 50, 85; Reteach: 50, 85; Performance Assessment: 50, 85; Help Students Read: 45, 48 TR: All-In-One: Reading Strategy Transparency: F24; Skills Lab Worksheet: 190-192; Guided Reading: 121-124, 185-187; Transparencies: F14, 15, 25, 26; Section Summary: 120, 184; Review and Reinforce: 125, 188; Enrich: 126, 189 TECH: PHSchool.com: scn-1021, cfd-1031; Student Edition on Audio CD; Lab Activity Video/DVD; Lab Zone CD; Presentation Express CD; Teacher Express CD; Online Text Earth's Changing Surface SE/TE: 36-47, 48-55; Key Terms: 36, 48; Target Reading Skills; 36, 48; Discover Activity: 36, 48; Chapter Project: 37; Try This Activity: 43, 51; Skills Lab: 46-47; Consumer Lab: 55; Math Analyzing Data: 44; Section Assessment: 45, 54; At Home Activity: 44; Writing in Science: 54 TE only: Differentiated Instruction: 39, 41, 49, 50, 53; Address Misconceptions: 36F, 43; Build Inquiry: 50, 53; Figure: 42; Use Visuals: 42, 49, 51, 52; Teacher Demo: 40, 43; Teach Key Concept: 39, 40, 42, 44, 49, 50, 51, 52; Monitor Progress: 39, 41, 43, 49, 51, 53, 54; Review Key Concepts: 45, 54; Reteach: 45, 54; Performance Assessment: 37, 45, 54; Help Students Read; 41, 53</p>

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(Continued)	(Continued) TR: All-In-One: Key Term Review: 137; Transparency: G 37, 12, 13; Reading Strategy Transparency: G11; Performance Assessment Teacher Notes; 144; Performance Assessment Scoring 145; Performance Assessment Student Worksheet: 146; Chapter Test: 147-150; Chapter Project Teacher Note: 102-103; Chapter Project Student Overview: 104-105; Chapter Project Student Worksheet: 106-107; Chapter Project Scoring Rubric: 108; Guided Reading: 111-114, 122-125; Section Summary: 110, 121; Review and Reinforce: 115, 126; Enrich: 116, 127; Skills Lab Worksheet: 117-119; Consumer Lab Worksheet: 128-129 TECH: NSTA PDLink: scf-0720; www.PHSchool.com: cfd-2021, cfp-2022; Discovery Channel Student Video/DVD; Student Edition on Audio CD; Lab Activity Video/DVD; Lab Zone CD; Presentation Express CD; Teacher Express CD; Student Express CD; Online Textbook <u>EVENT-BASED SCIENCE</u> Volcano! SE: 17, 19

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<p>Identify samples of igneous, sedimentary, and metamorphic rock from their properties, and describe how their properties provide evidence of how they were formed. Explain how one kind of rock could eventually become a different kind of rock.</p>	<p>Inside Earth SE/TE: 144-147, 148-151, 152-156, 160-163; At Home Activity; 151, 162; Discover Activity: 144, 148, 152, 160; Key Terms: 144, 148, 152, 160; Math Analyzing Data: 150; Skills Lab: 163; Target Reading Skills: 144, 148, 152, 160; Try This Activity: 155, 161; Writing in Science: 147, 156 TE only: Build Inquiry: 150, 154; Differentiated Instruction: 145, 149, 153; Monitor Progress; 145, 147, 149, 151, 153, 154, 155, 156, 161; Teach Key Concepts: 145, 146, 149, 151, 153, 155, 161, 162 ; Address Misconceptions: 142I 155; Content Refresher: 142I; Discover Channel School Video Field Trip: 149; Reviewing Key Concepts: 151, 156, 162; Reteach: 161, 156, 162; Performance Assessment: 156 TR: All-In-One: Skills Lab Worksheet: 346-348; Guided Reading: 309-312, 317-320, 325-329, 341-343; Section Summary; 308, 316, 324, 340; Review and Reinforce: 313, 321, 330, 344; Enrich: 314, 322, 331, 345; Transparency: F44, 46, 49 TECH: www.PHSchool.com: cfd-1051, cfa-1055; www.SciLinks.com: scn-1052, scn-1053; Discover Channel School Video/DVD; Student Edition on Audio CD; Presentation Express CD; Teacher Express CD; Student Express CD; Lab Activity Video; Lab Zone CD</p> <p><u>EVENT-BASED SCIENCE</u> Gold Rush! SE: 46 TG: 23, 24, 25</p> <p>Volcano! SE: 37 TG: 15</p>

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<p align="center">The Revised Washington State K-12 Science Standards, (12/14/2008)</p>	<p align="center">Science Explorer - © 2009 / EBS © 2005</p>
<p>EALR 4: Earth and Space Science</p>	
<p>Big Idea: Earth History (ES3)</p>	
<p>Core Content: Evidence of Change</p>	
<p>In prior grades, students learned that fossils provide evidence of environmental conditions that existed long ago. In grades 6-8, students learn a few of the methods that have made it possible to uncover the history of our planet. That history includes both slow, gradual changes, and rapid, catastrophic events, such as an asteroid or comet striking the Earth. It is possible to read a great deal of that history from rocks, including layers of sedimentary rock, some of which contain fossils. Understanding Earth's history is a valuable complement to the study of biological evolution.</p>	
<p>Content Standards</p>	
<p>Students know that:</p>	
<p>6-8 ES3A - Our understanding of Earth history is based on the assumption that processes we see today are similar to those that occurred in the past.</p>	<p>Earth's Changing Surface SE/TE: 110-116, 127-129, 130-133, 134-152; Key Terms: 110, 127, 130, 134; Target Reading Skills: 110, 127, 130, 134; Discover Activity: 110, 127, 130, 134; Chapter Project: 109; Discover Activity: 110; Try This Activity: 113, 144; At Home Activity: 116; Skill Activity: 132; Math Analyzing Data: 137; Writing In Science: 129, 133, 145; Standardized Test Prep: 151 TE only: Differentiated Instruction: 111, 112, 114, 115, 128, 131, 135, 137, 139, 141, 143; Misconceptions: 108I, 115, 141; Integrate Chemistry: 113; Address Misconceptions: 115; Build Inquiry: 112, 113, 115, 133, 136, 139, 140, 143; Teach Key Concepts: 111, 114, 128, 131, 132, 135, 142, 144; Use Visuals: 136, 138; Teacher Demo Lab: 112; Monitor Progress: 111, 113, 115, 116, 131, 133, 135, 137, 139, 141, 143; Performance Assessment: 109, 116, 129, 133, 145; Section Assessment: 133, 145; Review Key Concepts: 116, 129, 133, 145; Graphic Organizer: 149; Reteach: 116, 129, 133, 145; Think Critically: 150; Help Students Read: 114, 131, 137, 139 TR: All-in-one: Key Term Review: 288; Reading Strategy Transparency: G48, 33, 35, 39, 42, 44, 46; Performance Assessment Teacher Notes: 295; Scoring: 296; Performance Assessment Student Worksheet: 297; SLW: 256-257, 285-287; Chapter Project Teacher Notes: 234-235; Chapter Project Student Worksheet: 238-239; Chapter Project Student Overview: 236-237; Chapter Project Scoring Rubric: 240; Guided Reading: 243-246, 267-268, 273-275, 280-282; Transparencies: G33, 34, 35, 36, 37, 38; Section Summary: 242, 266, 264, 272, 279; Review and Reinforce: 247, 269, 276, 283; Enrich: 248, 270, 277, 284</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
(Continued)	<p>(Continued)</p> <p>TECH: Active Art: 121; Discovery Channel School Video Preview: 109; Discovery Channel School Video Field Trip: 118; Lab Activity Video/DVD; Lab Zone CD; Student Edition on Audio CD; Online Textbook; Presentation Express CD; Teacher Express CD</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following</p> <p>Toxic Leak SE: 29</p> <p>Flood SE: 42</p>
<p>6-8 ES3B - Thousands of layers of sedimentary rock provide evidence that allows us to determine the age of Earth's Changing Surface and to estimate the age of fossils found in the rocks.</p>	<p>Earth's Changing Surface SE/TE: 117-122; Key Terms: 117; Target Reading Skills: 117; Discover Activity: 117; Try This Activity: 119; Discovery Channel School Video Field Trip: 118</p> <p>TE only: Differentiated Instruction: 118, 120; Skills Lab: 122; Teach Key Concepts: 118, 119, 120; Monitor Progress; 119, 121; Build Inquiry: 119, 120; Review Key Concepts: 121; Reteach: 121; Section Assessment: 121</p> <p>TR: All-In-One: Transparency: C34, 36, 37; Guided Reading: 251-253; Section Summary: 250; Review and Reinforce: 254; Enrich: 255</p> <p>TECH: PHSchool.com SciLinks: cfp-2042; cfp-1015; Discovery Channel School Video CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following</p> <p>Flood! SE: 42</p>

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<p>6-8 ES3C - In most locations sedimentary rocks are in horizontal formations with the oldest layers on the bottom. However, in some locations, rock layers are folded, tipped, or even inverted, providing evidence of geologic events in the distant past.</p>	<p>Earth's Changing Surface SE/TE: 117-122; Key Terms: 117; Target Reading Skills: 117; Discover Activity: 117; Try This Activity: 119; Discovery Channel School Video Field Trip: 118 TE only: Differentiated Instruction: 118, 120; Skills Lab: 122; Teach Key Concepts: 118, 119, 120; Monitor Progress: 119, 121; Build Inquiry: 119, 120; Review Key Concepts: 121; Reteach: 121; Section Assessment: 121 TR: All-In-One: Transparency: C34, 36, 37; Guided Reading: 251-253; Section Summary: 250; Review and Reinforce: 254; Enrich: 255 TECH: PHSchool.com SciLinks: cfp-2042; cfp-1015; Discovery Channel School Video CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Flood SE: 42</p>
<p>6-8 ES3D - Earth has been shaped by many natural catastrophes, including earthquakes, volcanic eruptions, glaciers, floods, storms, tsunamis, and the impacts of asteroids.</p>	<p>Earth's Changing Surface SE/TE: 130-133, 134-147; Key Terms: 130, 134; Target Reading Skills: 130, 134; Discover Activity: 130, 134; Try This Activity: 144; Math Analyzing Data: 137 TE only: Differentiated Instruction: 131, 132, 139, 141, 143 Skills Activity: 132; Skills Lab: 146-147; Teach Key Concepts: 131, 132, 135, 142, 144; Monitor Progress: 131, 133, 135, 137, 139, 141, 143, 145; Performance Assessment: 145; Build Inquiry: 133, 136, 139, 141; Misconceptions: 141; Review Key Concepts: 133; Use Visuals: 136, 138; Help Students Read: 137 TR: All-In-One: Guided Reading: 273-275, 280-282; Section Summary: 272, 279; Review and Reinforce: 276, 283; Enrich: 277, 284 TECH: PHSchool.com SciLinks: scn-0745; cfp-1015; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Earthquake! SE: 21, 22 Fire! SE: 12, 13, 17, 23, 39 Global Warming? SE: 48, 49, 50, 51</p>

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<p>6-8 ES3E - Living organisms have played several critical roles in shaping landforms that we see today.</p>	<p>Earth's Changing Surface SE/TE: 130-133, 134-147; Key Terms: 130, 134; Target Reading Skills: 130, 134; Discover Activity: 130, 134; Try This Activity: 144; Math Analyzing Data: 137 TE only: Differentiated Instruction: 131, 132, 139, 141, 143 Skills Activity: 132; Skills Lab: 146-147; Teach Key Concepts: 131, 132, 135, 142, 144; Monitor Progress; 131, 133, 135, 137, 139, 141, 143, 145; Performance Assessment: 145; Build Inquiry: 133, 136, 139, 141; Misconceptions: 141; Review Key Concepts: 133; Use Visuals: 136, 138; Help Students Read: 137 TR: All-In-One: Guided Reading: 273-275, 280-282; Section Summary: 272, 279; Review and Reinforce: 276, 283; Enrich: 277, 284 TECH: PHSchool.com SciLinks: scn-0745; cfp-1015; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Fire! SE: 17, 18, 19</p>

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Performance Expectations	
Students are expected to:	
Describe Earth processes that we can observe and measure today (e.g., rate of sedimentation, movement of crustal plates, and changes in composition of the atmosphere) that provide clues to Earth's past.	<p>Earth's Changing Surface Book: G SE/TE: 64-71, 72-86, 87-90, 91-95, 96-100, 101-107; Key Terms: 66, 72, 86, 91, 96, 101; Target Reading Skills: 66, 72, 86, 91, 96, 101; Discover Activity: 66, 72, 86, 91, 96, 101; Chapter Project: 65; Science and Society: 84-85; Try This Activity: 74; Skill Activity: 67, 87, 99; Skills Lab: 70-71, 82-83; Math Analyzing Data: 89; Section Assessment: 69, 81, 90, 95, 103; At Home Activity: 69, 81, 103; Writing in Science: 90, 95, 105 TE only: Differentiated Instruction: 68, 73, 77, 79, 88, 89, 93, 97, 102; Addressing Misconceptions: 64I, 81; Build Inquiry: 74, 76, 78, 89; Figure: 78-79, 87, 97, 98-99, 102; Use Visuals: 76, 78, 91, 94; Teacher Demo: 68, 79, 81, 93, 94, 98; Teach Key Concepts: 67, 68, 73, 75, 77, 79, 81, 87, 89, 93, 97, 99; Monitor Progress: 67, 73, 75, 77, 79, 81, 89, 93, 97, 99; Review Key Concepts: 69, 81, 90, 95, 100, 103; Reteach: 90, 95, 100, 103; Performance Assessment: 65, 69, 95, 100, 103; Graphic Organizer: 105; Think Critically: 106; STP: 107; Help Students Read: 74, 75 TR: All-in-One: Key Term Review: 210; Reading Strategy Transparency: G32, 19, 21, 25, 28, 30; Performance Assessment Teacher Notes: 217; Scoring: 218; Performance Assessment Student Worksheet: 219; Chapter Test: 220-223; Chapter Project Teacher Notes: 158-159; CPSW: 162-163; Chapter Project Student Overview: 160-161; Chapter Project Scoring Rubric: 164; Guided Reading: 167-168, 175-178, 186-188, 193-195, 200-201, 206-207; Transparencies: D20, 22, 23, 24, 26, 27; Section Summary: 166, 174, 185, 192, 199, 205; Review and Reinforce: 169, 179, 189, 196, 203, 208; Enrich: 170, 180, 190, 197, 203, 209 TECH: NSTA PDLINK: scf-0730; PHSchool.com: cfd-2031, cfp-2031, cfd-2032, cfd-2033, scn-0734, scn-0735; Discovery Channel Student Video Preview: 37; Student Edition on Audio CD; Lab Activity Video/DVD; Lab Zone CD; Presentation Express CD; Teacher Express CD; Online Text</p>

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(continued)	<p>(continued) Can be developed using the following Gold Rush SE: 22 Flood SE: 16-19 Earthquake TE: 6-7 SE: 13-16 Volcano TG: 8-9 SE: 19-23, 38</p>
<p>Explain how the age of landforms can be estimated by studying the number and thickness of rock layers, as well as fossils found within rock layers.</p>	<p>Earth's Changing Surface SE/TE: 117-122; Key Terms: 117; Target Reading Skills: 117; Discover Activity: 117; Try This Activity: 119; Discovery Channel School Video Field Trip: 118 TE only: Differentiated Instruction: 118, 120; Skills Lab: 122; Teach Key Concepts: 118, 119, 120; Monitor Progress; 119, 121; Build Inquiry: 119, 120; Review Key Concepts: 121; Reteach: 121; Section Assessment: 121 TR: All-In-One: Transparency: C34, 36, 37; Guided Reading: 251-253; Section Summary: 250; Review and Reinforce: 254; Enrich: 255 TECH: PHSchool.com: SciLinks: cfp-2042; cfp-1015; Discovery Channel School Video CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p>
<p>Explain why younger layers of sedimentary rocks are usually on top of older layers, and hypothesize what geologic events could have caused huge blocks of horizontal sedimentary layers to be tipped or older rock layers to be on top of younger rock layers.</p>	<p>Earth's Changing Surface SE/TE: 117-122; Key Terms: 117; Target Reading Skills: 117; Discover Activity: 117; Try This Activity: 119; Discovery Channel School Video Field Trip: 118 TE only: Differentiated Instruction: 118, 120; Skills Lab: 122; Teach Key Concepts: 118, 119, 120; Monitor Progress; 119, 121; Build Inquiry: 119, 120; Review Key Concepts: 121; Reteach: 121; Section Assessment: 121 TR: All-In-One: Transparency: C34, 36, 37; Guided Reading: 251-253; Section Summary: 250; Review and Reinforce: 254; Enrich: 255 TECH: PHSchool.com: SciLinks: cfp-2042; cfp-1015; Discovery Channel School Video CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p>

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(continued)	<p>(continued) <u>EVENT-BASED SCIENCE</u> Earthquake TG: 6-7 Volcano TG: 8-9 Flood: SE: 42 Gold Rush SE: 22</p>
Interpret current landforms of the Pacific Northwest as evidence of past geologic events (e.g., Mount St. Helens and Crater Lake provide evidence of volcanism, the Channeled Scablands provides evidence of floods that resulted from melting of glaciers).	<p>Inside Earth SE/TE: 91-98, 99-111; Key Terms: 91, 99; Target Reading Skills: 91, 99; Discover Activity: 91, 99; Science and History: 96-97; Skill Lab: 106-107; Try This Activity: 94; Writing in Science: 96, 105 TE only: Address Misconceptions: 80G, 102; Build Inquiry: 92, 96, 101, 102; Differentiated Instruction: 93, 101, 103; Integrating Technology: 104; Monitor Progress: 93, 95, 96, 98, 101, 103, 105; Performance Assessment: 98; Teach Key Concept: 92, 94, 96, 100, 103, 104, 105; Teacher Demo: 95; Use Visuals: 93, 95, 100 TR: All-In-One: Reading Strategy Transparencies: F28, 30; Guided Reading: 202-206, 211-214; Transparencies: F29, 31, 32, 33; Section Summary: 201, 210; Review and Reinforce: 207, 215; Enrich: 208, 216; Skills Lab Worksheet: 217-218 TECH: www.PHSchool.com: cfp-1033; www.SciLinks.org: scn-1034; Teacher Express CD; Student Audio CD; Presentation Express CD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Volcano SE: 3, 4, 24-26, 28, 31-32, 43</p>

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List several ways that living organisms have shaped landforms (e.g., coral islands, limestone deposits, oil and coal deposits).	<p>Inside Earth SE/TE: 157-159; Key Terms: 157; Target Reading Skills: 157; Discover Activity: 157; Section Assessment: 159; At Home Activity: 159 TE only: Teach Key Concepts: 158; Differentiated Instruction: 158; Reviewing Key Concepts: 159; Reteach: 159; Performance Assessment: 159; Help Students Read: 159 TR: All-In-One: Guided Reading: 334-336; Section Summary: 333; Review and Reinforce: 337; Enrich: 338 TECH: PHSchool.com: cfd-1054; Teacher Express CD; Student Audio CD; Presentation Express CD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Flood: SE: 42 Gold Rush: SE: 24 Fire: SE: 17-19</p>
EALR 4: Life Science	
Big Idea: Structure and Function of Organisms (LS1)	
Core Content: From Cells to Organisms	
<p>In prior grades, students learned how structures in the body work together to respond to internal and external needs. In grades 6-8, students learn that all living systems are composed of cells, which make up tissues, organs, and organ systems. At each level of organization, the structures enable specific functions required by the organism. Lifestyle choices and environmental conditions can affect parts of the human body, which may affect the health of the body as a whole. Understanding how organisms operate as systems helps students understand the commonalities among life forms, provides an introduction to further study of biology, and offers scientific insights into the ways that personal choices may affect health.</p>	
Content Standards	
Students know that:	
6-8 LS1A - All organisms are composed of cells, which carry on the many functions needed to sustain life.	<p>Human Biology and Health SE/TE: 6-11; Key Terms: 6; Target Reading Skills: 6; Discover Activity: 6; Figure: 9; Try This Activity: 7; Writing in Science: 11 TE only: Differentiated Instruction: 9, 10; Build Inquiry: 8, 10; Monitor Progress: 7, 9; Teach Key Concepts: 7, 8, 9, 10; Section Assessment: 11 Reviewing Key Concepts: 11; Reteach: 11; Performance Assessment: 11; Reviewing Key Concepts: 11; Reteach: 11; Performance Assessment: 11 TR: All-In-One: Reading Strategy Transparency: D1; Guided Reading: 47-50; Section Summary: 46; Review and Reinforce: 51; Enrich: 52</p>

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(continued)	<p>(continued) TECH: www.SciLinks.org: scn-0411; Teacher Express CD; Student Audio CD; Presentation Express CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 5</p>
6-8 LS1B - One-celled organisms must contain parts to carry out all life functions.	<p>From Bacteria to Plants SE/TE: 40-47, 48-59; Key Terms: 40, 48; Target Reading Skills: 40, 48; Discover Activity: 40, 48; Skills Activity: 80; Skills Lab: 47; Consumer Lab: 58-59; Try This Activity: 50; Math Practice: 46; Math Analyzing Data: 53; Writing in Science: 55; Science and History: 54-55; Writing in Science: 55 TE only: Differentiated Instruction: 43, 45, 49, 51, 53; Monitor Progress: 43, 49, 51, 53, 55 Address Misconceptions: 50; Teach Key Concepts: 41, 43, 44, 49, 51, 52, 54; Build Inquiry: 45, 50, 53, 54; Help Students Read: 55; Integrating Science: 45; Section Assessment: 46; At Home Activity: 83; Use Visuals: 56; Background: 54; Teacher Demo: 56; Integrated Health: 78, 93; Reviewing Key Concepts: 46, 57; Reteach: 46, 57; Performance Assessment: 46, 57 TR: All-In-One: Skills Lab Worksheet: 115-116, 186-188; Consumer Lab Worksheet: 124-126; Reading Strategy Transparency: A10, 18, 24; Guided Reading: 109-112, 119-121, 165-168, 181-183; Transparencies: A11, 12, 13, 14, 15, 20, 21, 22, 25; Section Summary: 108, 118, 164, 180; Review and Reinforce: 113, 122, 169, 184; Enrich: 114, 123, 170, 185 TECH: www.PHSchool.com: cep-1021, ced-1022, cep-1031; www.SciLinks.com: scn-0133; Discovery Channel School Video/DVD</p>

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<p>6-8 LS1C - Multicellular organisms have specialized cells that perform different functions. These cells join together to form tissues that give organs their structure and enable the organs to perform specialized functions within organ systems.</p>	<p>Cells and Heredity SE/TE: 16-24; Key Terms: 16; Target Reading Skills: 16; Discover Activity: 16; Try This Activity: 18, 22; Math Problem: 37; Section Assessment: 24; Writing in Science: 24; TE only: Differentiated Instruction: 17, 19, 21, 23; Address Misconceptions: 4G, 18; Figure: 20-21; Use Visuals: 20, 22; Teacher Demo: 19, 21; Review Key Concepts: 24; Reteach: 24; Help Students Read: 20; TR: All-In-One: Key Term Review: 78; Transparency: C11; Reading Strategy Transparency: C1, 3, 6; Performance Assessment Teacher Notes: 87; Performance Assessment Scoring: 88; Performance Assessment Student Worksheet: 89; Guided Reading: 58-60; Transparencies: C2, 4, 5, 7, 8, 9, 10; Section Summary: 57; Review and Reinforce: 61; Enrich: 62 TECH: PHSchool.com: cep-3012; Discovery Channel School Video Field Trip: 23; Discovery Channel School Video Assessment: 39; Student Edition on Audio CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel School Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 5</p> <p>Gold Medal! SE: 13, 17</p>
<p>6-8 LS1D - Both plant and animal cells must carry on life functions, so they have parts in common, such as nuclei, cytoplasm, cell membranes, and mitochondria. But plants have specialized cell parts, such as chloroplasts and cell walls, because they are producers and do not move.</p>	<p>Cells and Heredity SE/TE: 16-24; Key Terms: 16; Target Reading Skills: 16; Discover Activity: 16; Try This Activity: 18, 22; Math Problem: 37; Section Assessment: 24; Writing in Science: 24; TE only: Differentiated Instruction: 17, 19, 21, 23; Address Misconceptions: 4G, 18; Figure: 20-21; Use Visuals: 20, 22; Teacher Demo: 19, 21; Review Key Concepts: 24; Reteach: 24; Help Students Read: 20 TR: All-In-One: Key Term Review: 78; Transparency: C11; Reading Strategy Transparency: C1, 3, 6; Performance Assessment Teacher Notes: 87; Performance Assessment Scoring: 88; Performance Assessment Student Worksheet: 89; Guided Reading: 58-60</p>

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The Revised Washington State K-12 Science Standards, (12/14/2008)	Science Explorer - © 2009 / EBS © 2005
(continued)	<p>(continued) TR: Transparencies: C2, 4, 5, 7, 8, 9, 10; Section Summary: 57; Review and Reinforce: 61; Enrich: 62 TECH: PHSchool.com: cep-3012; Discovery Channel School Video Field Trip: 23; Discovery Channel School Video Assessment: 39; Student Edition on Audio CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel School Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 5</p>
6-8 LS1E - In classifying organisms, scientists consider both internal and external structures and behaviors.	<p>From Bacteria to Plants SE/TE: 16-25; Key Terms: 16; Target Reading Skills: 16; Discover Activity: 16; At Home Activity: 24; ; Figure: 21, 23; Math Analyzing Data: 19; Skills Activity: 20; Skills Lab: 25; Discovery Channel School Video Field Trip: 17 TE only: Differentiated Instruction: 17, 19; Build Inquiry: 21 Teach Key Concepts: 17, 18, 20, 22, 23; Monitor Progress: 17, 19, 21, 23;;Section Assessment: 24; Reviewing Key Concepts: 24; Reteach: 24; Help Students Read: 18; Use Visuals: 22 TR: All-In-One: Reading Strategy Transparency: A4; Guided Reading: 57-60; Section Summary: 56; Review and Reinforce: 61; Enrich: 62; Skills Lab Worksheet: 63-65 TECH: www.PHSchool.com: ced-1012; Student Edition on Audio CD; Teacher Express CD; Student Express CD; Presentation Express CD; Discovery Channel School Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 18</p> <p>Gold Medal! SE: 17</p>

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<p align="center">The Revised Washington State K-12 Science Standards, (12/14/2008)</p>	<p align="center">Science Explorer - © 2009 / EBS © 2005</p>
<p>6-8 LS1F - Lifestyle choices and living environments can damage structures at any level of organization of the human body and can significantly harm the whole organism.</p>	<p>Human Biology and Health SE/TE: 55-59, 122-126, 166-171, 201-207; Key Terms: 55, 122, 166, 201; Target Reading Skills: 55, 122, 166, 201; At Home Activity: 169, 207; Consumer Lab: 208-209; Discover Activity: 55, 122, 166, 201; Math Analyzing Data: 168; Skill Activity: 124, 203 TE only: Address Misconceptions: 110F, 124, 138J, 168, 203; Build Inquiry: 125, 203, 206; Differentiated Instruction: 56, 123, 167, 204; Build Inquiry: 57, 58; Monitor Progress: 57, 123, 125, 167, 203, 205, 207; Performance Assessment: 126, 207; Teach Key Concept: 123, 124, 167, 168, 202, 204, 206; Use Visuals: 205 TR: All-In-One: Lab Worksheets: 397-399; Guided Reading: 127-128, 252-254, 331-332; Section Summary: 126, 251, 330; Review and Reinforce: 129, 255, 333; Enrich: 130, 256, 334 TECH: All-In-One: Lab Zone; Lab Activity Video; Online: SciLinks.com: cep-4022, , scn-0442, scn-0455, scn-0464; Student Edition on Audio CD; Teacher Express CD; Student Express CD; Presentation Express CD; Discovery Channel School Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Gold Medal! SE: 25, 33, 41</p>
<p>Performance Expectations Students are expected to:</p>	
<p>Draw and describe observations made with a microscope, showing that plants and Animals are made of cells, and explain that cells are the fundamental unit of life. Describe the functions performed by cells to sustain a living organism (e.g., division to produce more cells, taking in nutrients, releasing waste, using energy to do work, and producing materials the organism needs).</p>	<p>Cells and Heredity SE/TE: 6-15, 16-24; Key Terms: 6, 16,; Target Reading Skills: 6, 16 Discover Activity: 6, 16; Section Assessment: 13, 24; Writing in Science: 13, 24; Tech and Design in History: 8-9 TE only: Differentiated Instruction: 7, 12, 17, 19, 21, 23; Misconceptions: 4G, 18; Build Inquiry: 8, 11, 12; Integrating Physics: 12; Figure: 20-21; Use Visuals: 20, 22; Teach Key Concepts: 7, 8, 10, 11; Teacher Demo: 19, 21; Try This Activity: 18, 22; Monitor Progress: 9, 11; Review Key Concepts: 13, 24; Reteach: 13, 24; Performance Assessment: 13; Help Students Read: 20 TR: All-In-One: Transparency: C11; Reading Strategy Transparency: C6; Performance Assessment Teacher Notes: 87; Performance Assessment Scoring: 88; Performance Assessment Student Worksheet: 89; Guided Reading: 49-51, 58-6</p>

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<p>(continued)</p>	<p>(continued) TR: Transparencies: C2, 5; Section Summary: 48, 57; Review and Reinforce: 52, 61; Enrich: 53, 62 TECH: www.PHSchool.com: cep-3012, scn-0311; Teacher Express CD; Student Audio CD; Presentation Express CD; Online Textbook; Student Edition on Audio CD; Student Express CD</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 11</p> <p>TECH: Outbreak!</p>
<p>Draw and describe observations made with a microscope, showing that a single-celled organism (e.g., paramecium) contains parts used for all life functions.</p>	<p>Cells and Heredity SE/TE: 6-15, 16-24; Key Terms: 6, 16,; Target Reading Skills: 6, 16 Discover Activity: 6, 16; Section Assessment: 13, 24; Writing in Science: 13, 24; Tech and Design in History: 8-9 TE only: Differentiated Instruction: 7, 12, 17, 19, 21, 23; Misconceptions: 4G, 18; Build Inquiry: 8, 11, 12; Integrating Physics: 12; Figure: 20-21; Use Visuals: 20, 22; Teach Key Concepts: 7, 8, 10, 11; Teacher Demo: 19, 21; Try This Activity: 18, 22; Monitor Progress: 9, 11; Review Key Concepts: 13, 24; Reteach: 13, 24; Performance Assessment: 13; Help Students Read: 20 TR: All-In-One: Transparency: C11; Reading Strategy Transparency: C6; Performance Assessment Teacher Notes: 87; Performance Assessment Scoring: 88; Performance Assessment Student Worksheet: 89; Guided Reading: 49-51, 58-60; Transparencies: C2, 5; Section Summary: 48, 57; Review and Reinforce: 52, 61; Enrich: 53, 62 TECH: www.PHSchool.com: cep-3012, scn-0311; Teacher Express CD; Student Audio CD; Presentation Express CD; Online Textbook; Student Edition on Audio CD; Student Express CD</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Outbreak SE: 30 TG: 19-21</p>

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<p>Relate the structure of a specialized cell (i.e., nerve and muscle cells) to the function that the cell performs. Explain the relationship between tissues that make up individual organs and the functions the organ performs (e.g., valves in the heart control blood flow, air sacs in the lungs maximize surface area for transfer of gases). Describe the components and functions of the digestive, circulatory, and respiratory systems in humans, and how these systems interact.</p>	<p>Human Biology and Health SE/TE: 10-11, 127-131, 145-151, 176-180, 216-221; Key Terms: 127, 145, 176, 216; Target Reading Skills: 127, 145, 176, 216; Discover Activity: 127, 145, 176, 216; Figure: 149, 178, 179, 219; Skill Activity: 218; Design Your Own Lab: 181; Skills Lab: 152-153; Section Assessment: 151, 221; Writing in Science: 151, 221 TE only: Differentiated Instruction: 147, 149, 177, 179, 217, 220; Build Inquiry: 149, 178, 219; Use Visuals: 148; Technology Lab: 222-223; Teacher Demo: 146; Try This Activity: 148; Teach Key Concepts: 146, 147, 148, 150, 177, 178, 217, 218, 220; Monitor Progress: 147, 149, 151, 177, 179, 217, 219; Review Key Concepts: 151, 180, 221; Reteach: 151, 180, 221; Performance Assessment: 180, 221; Help Students Read: 217 TR: All-In-One: Reading Strategy Transparency: D 48, 59; Guided Reading: 304-307, 367-369, 431-433; Transparencies: D42, 49, 50; Section Summary: 303, 366, 430; Review and Reinforce: 308, 370, 434; Enrich: 309, 371, 435; Skills Lab Worksheet: 310-311; Design Your Own Lab Worksheet: 372-373; Technology Lab Worksheet: 436-437 TECH: NSTA PHSchool.com: cep-4052, ced-4061, cep-4071; Discovery Channel School Video Preview: 147; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Gold Medal! SE: 17</p>

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<p>Use labeled diagrams or models to illustrate similarities and differences between plant and animal cell structures and describe their functions (e.g., both have nuclei, cytoplasm, cell membranes, and mitochondria, while only plants have chloroplasts and cell walls).</p>	<p>Cells and Heredity SE/TE: 20-21; Figure: 20-21 TE only: Use Visuals: 20; Help Students Read: 20; Differentiated Instruction: 21; Teacher Demo: 21; Monitor Progress: 21 TECH: Active Art:PHSchool.com: cep-3012; Teacher Express CD; Student Audio CD; Presentation Express CD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed from: Outbreak TG: 19-21 Blight TG: 5-7 SE: 5</p>
<p>Use a classification key to identify organisms, noting use of both internal and external structures as well as behaviors.</p>	<p>From Bacteria to Plants SE/TE: 16-25; Key Terms: 16; Target Reading Skills: 16; Discover Activity: 16; Discovery Channel School Video Field Trip: 17; Math Analyzing Data: 19; Reading Checkpoint: 19; Skills Activity: 20; Figure: 21, 23; Section Assessment: 24; Skills Lab: 25 TE only: Differentiated Instruction: 17, 19; Teach Key Concepts: 17, 18, 20, 22, 23; Monitor Progress: 17, 18, 21, 23, 24; Help Students Read: 18; Build Inquiry: 21; Use Visuals: 22; Reviewing Key Concepts: 24; Reteach: 24 TR: All-In-One: Guided Reading: 57-60; Transparencies: A 5, 6; Section Summary: 56; Review and Reinforce: 61; Enrich: 62 TECH: PHSchool.com: ced-1012; Teacher Express CD; Student Audio CD; Presentation Express CD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Blight SE: 7, 35, 44 Survive SE: 7 Outbreak SE: 28, 30 Survive SE: 36-37 TE: 18-21</p>

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<p>Evaluate how lifestyle choices and living environments (e.g., tobacco, drug, and alcohol use, amount of exercise, quality of air, and kinds of food) affect parts of the human body and the organism as a whole.</p>	<p>Human Biology and Health SE/TE: 55-59, 122-126, 166-171, 201-207; Key Terms: 55, 122, 166, 201; Target Reading Skills: 55, 122, 166, 201; At Home Activity: 169, 207; Consumer Lab: 208-209; Discover Activity: 55, 122, 166, 201; Math Analyzing Data: 168; Skill Activity: 124, 203 TE: Address Misconceptions: 110F, 124, 138J, 168, 203; Build Inquiry: 125, 203, 206; Differentiated Instruction: 56, 123, 167, 204; Build Inquiry: 57, 58; Monitor Progress: 57, 123, 125, 167, 203, 205, 207; Performance Assessment: 126, 207; Teach Key Concept: 123, 124, 167, 168, 202, 204, 206; Use Visuals: 205 TR: All-In-One: Lab Worksheets: 397-399; Guided Reading: 127-128, 252-254, 331-332; Section Summary: 126, 251, 330; Review and Reinforce: 129, 255, 333; Enrich: 130, 256, 334 TECH: All-In-One: Lab Zone; Lab Activity Video; Online: SciLinks.com: cep-4022, , scn-0442, scn-0455, scn-0464; Student Edition on Audio CD; Teacher Express CD; Student Express CD; Presentation Express CD; Discovery Channel School Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Gold Medal SE: 20-21, 24-25 Outbreak SE: 39-40</p>

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EALR 4: Life Science	
Big Idea: Ecosystems (LS2)	
Core Content: Flow of Energy Through Ecosystems	
<p>In prior grades, students learned how ecosystems change and how these changes affect the capacity of an ecosystem to support populations. In grades 6-8, students learn to apply key concepts about ecosystems to understand the interactions among organisms and the nonliving environment. Essential concepts include the process of photosynthesis used by plants to transform the energy of sunlight into food energy and possible causes of environmental change. Students also learn to investigate environmental issues and to use science to evaluate different solutions to the problem. Knowledge of how energy flows through ecosystems is a critical aspect of students' understanding of how energy sustains life on the planet, including human life.</p>	
Content Standards	
Students know that:	

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<p>6-8 LS2A - An ecosystem consists of all the populations living within a specific area and the nonliving factors they interact with. One geographical area may contain many ecosystems.</p>	<p>Environmental Science Book: E SE/TE: 4-12, 13-21, 24-31; Key 6, 13, 24; Target Reading Skills: 6, 13, 24; Discover Activity: 6, 13, 24; Skill Activity: 30; Science and Society: 22-23; Try This Activity: 9, 19; Figure: 17, 18, 26; Skills Lab: 12, 21; Math Skills: 16; Math Practice: 20; Math Analyzing Data: 27; Section Assessment: 20, 31; At Home Activity: 31 TE only: Differentiated Instruction: 14, 16, 17, 25; Misconceptions: 4H, 25; Build Inquiry: 15, 17, 19, 26, 28; Use Visuals: 29; Background: 23; Integrate Health: 31; Teach Key Concepts: 14, 16, 18, 25, 26, 27, 30; Monitor Progress: 15, 17, 19, 25, 27, 29, 31; Review Key Concepts: 20, 31; Reteach: 20, 31; Performance Assessment: 20, 31 TR: All-In-One: Reading Strategy Transparency: E1, 3; SLW: 53-54, 61-63; Guided Reading: 47-50, 57-58; Section Summary: 46, 56, 71; Review and Reinforce: 51, 59, 74; Transparencies: E-2, 4, 5; Enrich: 52, 60, 75 TECH: NSTA PDLINK: scf-0510; PHSchool.com: scn-0511, cep-5012, ceh-5010; Discovery Channel School Video Field Trip: 28; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Flood! SE: 9</p> <p>Oil Spill! SE: 27, 28, 29 TG: 13</p> <p>Survive? SE: 54</p>

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<p>6-8 LS2B - Energy flows through an ecosystem from producers to consumers to decomposers. These relationships can be shown for specific populations on a food web.</p>	<p>Environmental Science Book: E SE/TE: 40-47; Key Terms: 40; Target Reading Skills: 40; Discover: 40; Figure: 49, 52; Try This Activity: 50; Skill Activity: 49; Section Assessment: 53; Writing in Science: 53 TE only: Differentiated Instruction: 50; Address Misconceptions: 40H; Build Inquiry: 51, 52; Teach Key Concepts: 49, 50, 52; Monitor Progress: 49, 51; Review Key Concepts: 53; Reteach: 53; Performance Assessment: 53; Help Students Read: 50 TR: All-In-One: Reading Strategy Transparency: E14; Guided Reading: 116-119; Transparencies: E15, 16, 17; Section Summary: 115; Review and Reinforce: 119; Enrich: 120 TECH: NSTA PDLINK: scf-0520; PHSchool.com: cfp-4024; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Fire! SE: 53</p> <p>Oil Spill! SE: 27, 28, 29, 43</p> <p>Survive? SE: 20, 21</p>
<p>6-8 LS2C - The major source of energy for ecosystems on Earth's surface is sunlight. Producers (plants) transform the energy of sunlight into the chemical energy of food through photosynthesis. This food energy is used by plants, Animals, and all other organisms to carry on life processes. Nearly all organisms on the surface of Earth depend on this energy source.</p>	<p>Environmental Science Book: E SE/TE: 40-47; Key Terms: 40; Target Reading Skills: 40; Discover: 40; Figure: 49, 52; Try This Activity: 50; Skill Activity: 49; Section Assessment: 53; Writing in Science: 53 TE only: Differentiated Instruction: 50; Address Misconceptions: 40H; Build Inquiry: 51, 52; Teach Key Concepts: 49, 50, 52; Monitor Progress: 49, 51; Review Key Concepts: 53; Reteach: 53; Performance Assessment: 53; Help Students Read: 50 TR: All-In-One: Reading Strategy Transparency: E14; Guided Reading: 116-119; Transparencies: E15, 16, 17; Section Summary: 115; Review and Reinforce: 119; Enrich: 120</p>

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(continued)	<p>(continued) TECH: NSTA PDLink: scf-0520; PHSchool.com: cfp-4024; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Blight! SE: 5, 13</p> <p>Fire! SE: 53, 54, 55</p> <p>Global Warming? SE: 12, 13, 20</p> <p>Oil Spill! SE: 27, 28, 29</p>
<p>6-8 LS2D - Ecosystems are continuously changing. Causes of these changes include nonliving factors such as the amount of light, range of temperatures, and availability of water, as well as living factors such as the disappearance of different species through disease, predation, and overuse of resources or the introduction of new species.</p>	<p>Environmental Science SE/TE: 54-57; Key Terms: 54; Target Reading Skills: 54; Discover Activity: 54; At Home Activity: 57; Section Assessment: 57 TE only: Differentiated Instruction: 55; Monitor Progress: 55 Teach Key Concepts: 55, 56; Build Inquiry: 56; Reviewing Key Concepts: 57; Reteach: 57; Performance Assessment: 57 TR: All-In-One: Reading Strategy Transparency: E18; Guided Reading: 123-124; Transparencies: E19; Section Summary: 122; Review and Reinforce: 125; Enrich: 126 TECH: www.PHSchool.com: cfp-1015</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Blight! SE: 15, 20, 21, 22, 23, 24, 25, 36, 48</p> <p>Global Warming? SE: 50, 56</p> <p>Hurricane! SE: 32, 33</p> <p>TECH: Blight!; Survive?; Paw Creek: Neighbors in Fear; The Mt. Pinatubo Eruption</p>

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<p>6-8 LS2E - Investigations of environmental issues should uncover factors causing the problem and relevant scientific concepts and findings that may inform an analysis of different ways to address the issue.</p>	<p>Environmental Science SE/TE: x-3, 130-131, 146-155: Careers in Science: Treetop Scientist: x-3; Use Maps: 1; Connect Culture: 1; Build Inquiry Skills: 1; Writing in Science: 3; Background x, 2; Use Visuals: 2; Math Practice: 151; Math Skills: 148; Math Analyzing Data: 149; Section Assessment: 151; Skills Lab: 130-131 TE only: Differentiated Instruction: 147; Teach Key Concepts: 147, 150; Monitor Progress: 147, 149, 151; Build Inquiry: 148; Reviewing Key Concepts: 151; Reteach: 151; Performance Assessment: 151 TR: All-In-One: Guided Reading: 274-276; Transparencies: E37, 38; Section Summary: 273; Review and Reinforce: 277; Enrich: 278; Skills Lab Worksheets: 253-254 TECH: www.phschool.com: ceb-5000; Student Edition on Audio CD; Teacher Express</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 15, 20, 21, 23</p> <p>Fire! SE: 54, 55</p> <p>Global Warming? SE: 54, 55, 56, 57, 58</p> <p>TECH: Blight!; Paw Creek: Neighbors in Fear</p>
<p>Performance Expectations</p>	
<p>Students are expected to:</p>	
<p>Explain that an ecosystem is a defined area that contains populations of organisms and nonliving factors. Give examples of ecosystems (e.g., Olympic National Forest, Puget Sound, one square foot of lawn) and describe their boundaries and contents.</p>	<p>Environmental Science SE/TE: 58-69; Key Terms: 58;; Target Reading Skills: 58; Discover Activity: 58; At Home Activity: 57; Key Terms: 58; Skill Lab: 68-69; Try This Activity: 61; Writing in Science: 66; Discovery Channel School Video Field Trip: 58 TE only: Differentiated Instruction: 59, 62; Monitor Progress: 59, 60, 63, 65, 67; Section Assessment: 69; Teach Key Concept: 60, 62, 64, 65, 66; Build Inquiry: 63, 65, 66 TR: All-In-One: Guided Reading: 129-131; Transparency: E17; Section Summary: 128; Review and Reinforce: 132; Enrich: 133; Skills Lab Worksheets: 134-136</p>

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<p>(continued)</p>	<p>(continued) TECH: www.PHSchool: cfp-4024; Lab Activity Video; Lab Zone; Discovery Channel School Video/DVD; Lab Activity Video; Teacher Express CD; Student Express CD; Student Edition on Audio CD; Presentation Express CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u> Oil Spill! SE: 27, 28, 29</p> <p>Survive? SE: 54</p>
<p>Analyze the flow of energy in a local ecosystem, and draw a labeled food web showing the relationships among all of the ecosystem's plant and animal populations.</p>	<p>Environmental Science Book: E SE/TE: 40-47; Key Terms: 40; Target Reading Skills: 40; Discover: 40; Figure: 49, 52; Try This Activity: 50; Skill Activity: 49; Section Assessment: 53; Writing in Science: 53 TE only: Differentiated Instruction: 50; Address Misconceptions: 40H; Build Inquiry: 51, 52; Teach Key Concepts: 49, 50, 52; Monitor Progress: 49, 51; Review Key Concepts: 53; Reteach: 53; Performance Assessment: 53; Help Students Read: 50 TR: All-In-One: Reading Strategy Transparency: E14; Guided Reading: 116-119; Transparencies: E15, 16, 17; Section Summary: 115; Review and Reinforce: 119; Enrich: 120 TECH: NSTA PDLINK: scf-0520; PHSchool.com: cfp-4024; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Oil Spill! SE: 29</p>

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<p>Explain how energy from the Sun is transformed through photosynthesis to produce chemical energy in food. Explain that plants are the only organisms that make their own food. Animals cannot survive without plants because Animals, including humans, get food by eating plants or other Animals that eat plants.</p>	<p>From Bacteria to Plants SE/TE: 114-121; Key Concepts: 115, 117; Target Reading Skills: 115, 117; Discover Activity: 115, 117; At Home Activity: 119; Science and History: 116-117; Design Your Own Lab: 120-121; Section Asses TE only: Differentiated Instruction: 115, 118; Build Inquiry Activity: 115; Help Students Read: 117; Misconceptions: 102G, 118; Use Visuals: 118; Monitor Progress: 115, 117, 119; Reteach: 119; Performance Assessment: 119; Writing in Science: 117 TR: All-In-One: Reading Strategy Building Vocabulary: 114; Guided Reading: 227-229; Transparencies: A30, 31; Section Summary: 226; Review and Reinforce: 230; Enrich: 231; Design Your Own Lab: 232-234 TECH: NSTA PDLink: 1026; PHSchool: Active Art: cep-1042; Discovery Channel School Video Field Trip: 116; Student Edition Audio CD; Presentation Express CD-ROM; Teacher Express CD-ROM; On-Line Text Cells and Heredity SE/TE: 44-48, 49-53; Design Your Own Lab: 54; Discover Activity: 44, 49; Key Terms: 44, 49; Skills Activity: 50; Target Reading Skills: 44, 49 TE only: Address Misconceptions: 42G, 47; Build Inquiry: 47; Differentiated Instruction: 45, 46, 51, 52; Monitor Progress: 45, 47, 48, 51, 53; Teacher Demo: 51; Teach Key Concepts: 45, 46, 50, 52; Use Visuals: 51 TR: All-In-One: Design Your Own Lab: 123-124; Guided Reading: 111-113, 118-120; Section Summary: 110, 117; Review and Reinforce: 114, 121; Enrich: 115, 122; Transparency: C13, 14, 16, 17 TECH: PHSchool.com: cep-1042; SciLinks.com: scn-0322; Student Edition Audio CD; Presentation Express CD-ROM; Teacher Express CD-ROM; On-Line Text</p>

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(continued)	<p>(continued) <u>EVENT-BASED SCIENCE</u> Blight! SE: 5, 13, 18</p> <p>Fire! SE: 53</p> <p>Global Warming? SE: 20</p> <p>Oil Spill! SE: 27</p>
Predict what may happen to an ecosystem if nonliving factors change (e.g., the amount of light, range of temperatures, or availability of water), or if one or more populations are removed from or added to the ecosystem.	<p>Environmental Science SE/TE: 4-12, 13-21; Key 6, 13; Target Reading Skills: 6, 13; Discover Activity: 6, 13; Figure: 17, 18; Science and Society: 22-23; Try This Activity: 9, 19; Math Practice: 20; Skills Lab: 12, 21; Math Skills: 16; Math Analyzing Data: 27; Section Assessment: 20, 31; At Home Activity: 31</p> <p>TE only: Differentiated Instruction: 14, 16, 17, 25; Address Misconceptions: 4H, 25; Build Inquiry: 15, 17, 19, 26, 28; Use Visuals: 29; Background: 23; Integrate Health: 30; Teach Key Concepts: 14, 16, 18, 25, 26, 27, 30; Monitor Progress: 15, 17, 19, 25, 27, 29, 31; Review Key Concepts: 20, 31; Reteach: 20, 31; Performance Assessment: 20, 31</p> <p>TR: All-In-One: Reading Strategy Transparency: E1, 3; SLW: 53-54, 61-63; Guided Reading: 47-50, 57-58; Section Summary: 46, 56; Review and Reinforce: 51, 59; Transparencies: E-2, 4, 5; Enrich: 52, 60</p> <p>TECH: NSTA PDLink: scf-0510; PHSchool.com: scn-0511, cep-5012, ceh-5010; Discovery Channel School Video Field Trip: 28; Lab Activity Video; Lab Zone; On-line Text; Presentation Express CD; Teacher Express CD; Student Edition on Audio CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 15, 23, 24</p>

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<p>Investigate a local environmental issue by defining the problem, researching possible causative factors, understanding the underlying science, and evaluating the benefits and risks of alternative solutions. Identify resource uses that reduce the capacity of ecosystems to support various populations (e.g., use of pesticides, construction).</p>	<p>Environmental Science SE/TE: 165-171, 172-173, 179-182; Discover Activity: 165; Discovery Channel School Video Field Trip: 166; Key Terms: 165; Technology Lab: 172-173; Try This Activity; 168; Writing in Science: 171, 182; Consumer Lab: 183; Section Assessment: 182 TE only: Address Misconceptions: 156G, 169; Build Inquiry: 167; Target Reading Skills: 165; Content Review: 156G; Background: 180; Differentiated Instruction: 167, 181; Monitor Progress: 169, 171, 181; Performance Assessment: 171; Teach Key Concepts: 168, 169, 170, 180, 182; Use Visuals: 167; Help Students Read: 181; Reviewing Key Concepts: 182; Reteach: 182; Performance Assessment: 182 TR: All-In-One: Guided Reading: 321-324, 338-340; Section Summary: 320, 337; Review and Reinforce: 325, 341; Enrich: 326, 342; Transparency: E44, 45; Technology Lab Worksheet: 327-328; Consumer Lab Worksheet: 343-345 TECH: SciLinks.org: scn-0552; ced-5054</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Global Warming SE: 40-42, 43, 54, 56, 57-60</p>

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EALR 4: Life Science	
Big Idea: Biological Evolution (LS3)	
Core Content: Variation and Adaptation	
<p>In prior years, students learned that differences in inherited characteristics might help organisms survive and reproduce. In grades 6-8, students learn how the traits of organisms are passed on through the transfer of genetic information during reproduction and how inherited variations can become adaptations to a changing environment. Sexual reproduction produces variations because genes are inherited from two parents. Variations can be either physical or behavioral and some have adaptive value in a changing environment. In the theory of biological evolution, the processes of inheritance, variation, and adaptation explain both the diversity and unity of all life.</p>	
Content Standards	
Students know that:	
<p>6-8 LS3A - The scientific theory of evolution underlies the study of biology and explains both the diversity of life on Earth and similarities of all organisms at the chemical, cellular (and molecular) level. Evolution is supported by multiple forms of scientific evidence.</p>	<p>Cells and Heredity SE/TE: 136-147, 148-154; Key Terms: 136, 148; Target Reading Skills: 136, 148; Discover Activity: 136, 148; Chapter Project: 137; Figure: 149, 159; Try This Activity: 141; Skill Activity: 143, 150; Skills Lab: 146-147, 154 TE only: Differentiated Instruction: 139, 149, 151;; Build Inquiry: 141, 143, 144, 150; Use Visuals: 144; Monitor Progress: 139, 141, 149, 151; Teach Key Concepts: 139, 140, 142, 143, 149, 151; Teacher Demo: 152; Section Assessment: 145, 153; Writing in Science: 145, 153; Review Key Concepts: 153; Reteach: 153; Performance Assessment: 137, 153; Help Students Read: 142, 150 TR: Key Term Review: 318; Transparency: C46; Reading Strategy Transparency: C40, 41; Performance Assessment Teacher Notes: 325; Performance Assessment Scoring: 326; Performance Assessment Student Worksheet: 327; Chapter Test: 328-331; Chapter Project Teacher Notes: 286-287; Chapter Project Student Overview: 288-289; Chapter Project Scoring Rubric: 290-291; Guided Reading: 295-297, 305-306, 313-315; Transparencies: C42, 43, 44; Section Summary: 294, 304; Review and Reinforce: 298, 307; Enrich: 299, 308; Skills Lab Worksheet: 300-302, 309-310 TECH: NSTA PDLINK: SCF-0350; PHSchool.com: SciLinks:scn-0351, SCN-0352; Discovery Channel School Video Preview: 137; Discovery Channel School Video Field Trip: 139; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Survive? SE: 3, 9, 17, 29, 39, 40, 41, 46, 47, 50</p>

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<p>6-8 LS3B - Every organism contains a set of genetic information (instructions) to specify its traits. This information is contained within genes in the chromosomes in the nucleus of each cell.</p>	<p>Cells and Heredity SE: 92-96, 97-103; Key Terms: 92, 97; Target Reading Skills: 92, 97; Discover Activity: 92, 97; Discovery Channel School Video Field Trip: 102; Skills Activity: 99; Writing in Science: 96, 103 TE: Address Misconceptions: 74H, 102; Build Inquiry: 95, 99, 101; Differentiated Instruction: 93, 95, 98, 101; Monitor Progress: 93, 95, 99, 101, 103; Performance Assessment: 103; Teach Key Concepts: 93, 94, 96, 98, 99, 102; Use Visuals: 100 TR: All-In-One: Guided Reading: 195-196, 201-204; Transparency: C28, 30, 31; Section Summary: 194, 200; Review and Reinforce: 197, 205; Enrich: 198, 206 TECH: Active Art: cep-3034; SciLinks.org: scn-0333; Discovery Channel School Video CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Gold Medal! SE: 20</p> <p>Survive? SE: 7, 10, 28</p>
<p>6-8 LS3C - Reproduction is essential for every species to continue to exist. Some plants and Animals reproduce sexually while others reproduce asexually. Sexual reproduction leads to greater diversity of characteristics because children inherit genes from both parents.</p>	<p>Animals SE/TE: 9, 21, 22, 71, 88, 95, 104, 123; Figure: 21, 71, 95; Try This Activity: 123 TE only: Differentiated Instruction: 21, 71, 95; Use Visuals: 21; Teach Key Concepts: 71, 88, 95; Monitor Progress: 21, 71, 95; Help Students Read: 88 TECH: PHSchool.com: ced-2033; Teacher Express CD; Student Audio CD; Presentation Express CD; Online Text</p> <p>Cells and Heredity SE: 92-96, 97-103; Key Terms: 92, 97; Target Reading Skills: 92, 97; Discover Activity: 92, 97; Discovery Channel School Video Field Trip: 102; Skills Activity: 99; Writing in Science: 96, 103 TE: Address Misconceptions: 74H, 102; Build Inquiry: 95, 99, 101; Differentiated Instruction: 93, 95, 98, 101; Monitor Progress: 93, 95, 99, 101, 103; Performance Assessment: 103; Teach Key Concepts: 93, 94, 96, 98, 99, 102; Use Visuals: 100</p>

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(continued)	<p>(continued) TECH: Active Art: cep-3034; SciLinks.org: scn-0333; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 27, 32, 33</p> <p>Survive? SE: 30, 31, 45</p>
6-8 LS3D - In sexual reproduction, the new organism receives half of its genetic information from each parent, resulting in offspring that are similar but not identical to either parent. In asexual reproduction, just one parent is involved, and genetic information is passed on nearly unchanged.	<p>Cells and Heredity SE: 92-96, 97-103; Key Terms: 92, 97; Target Reading Skills: 92, 97; Discover Activity: 92, 97; Discovery Channel School Video Field Trip: 102; Skills Activity: 99; Writing in Science: 96, 103 TE: Address Misconceptions: 74H, 102; Build Inquiry: 95, 99, 101; Differentiated Instruction: 93, 95, 98, 101; Monitor Progress: 93, 95, 99, 101, 103; Performance Assessment: 103; Teach Key Concepts: 93, 94, 96, 98, 99, 102; Use Visuals: 100 TECH: Active Art: cep-3034; SciLinks.org: scn-0333; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 32</p> <p>Survive? SE: 12, 30, 31, 45, 52, 53</p>
6-8 LS3E - Adaptations are physical or behavioral changes that are inherited and enhance the ability of an organism to survive and reproduce in a particular environment.	<p>Cells and Heredity SE/TE: 141-143; Try This Activity: Skills Activity: 143; Section Assessment: 145; Writing in Science: TE only: Build Inquiry: 141, 143, 144; Differentiated Instruction: 142; Monitor Progress: 141, 143; Teach Key Concepts: 142, 143; Use Visuals: 144; Help Students Read: 142 TR: Key Term Review: 318; Transparency: C46; Reading Strategy Transparency: C40, 41; Guided Reading: 295-297; Transparencies: C42; Section Summary: 294; Review and Reinforce: 298; Enrich: 299 TECH: SciLinks.org: scn-0351; Teacher Express CD; Student Audio CD; Presentation Express CD; Online Text</p>

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(continued)	<p>(continued)</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Blight! SE:16, 34, 37</p> <p>Fire! SE: 46</p> <p>Outbreak! SE: 27, 29, 46</p> <p>Survive? SE: 3, 13, 23, 30, 35, 36, 37, 38 TG: 21</p>
6-8 LS3F - Extinction occurs when the environment changes and the adaptive characteristics of a species, including its behaviors, are insufficient to allow its survival.	<p>Environmental Science</p> <p>Book: E SE/TE: x-3, 95-105; Key Terms: 95; Target Reading Skills: 95; Discover Activity: 95; Careers in Science: Treetop Scientist: x-3; Background: 2; Writing in Science: 3; Figure: 90; Try This Activity: 99; Skills Lab: 94; Math Analyzing Data: 103; Section Assessment: 105; At Home Activity: 105</p> <p>TE only: Differentiated Instruction: 99; Address Misconceptions: 80H, 101; Build Inquiry: 99; Teacher Demo: 97; Teach Key Concepts: 96, 98, 99, 100, 102, 104; Monitor Process: 97, 99, 101, 103, 105; Review Key Concepts: 105; Reteach: 105; Help Students Read: 98, 100, 104</p> <p>TR: All-In-One: Reading Strategy Transparency: E23, 24; Skills Lab Worksheet: 192-194; Guided Reading: 196-198; Section Summary: 195; Review and Reinforce: 199; Enrich: 200</p> <p>TECH: Lab Activity Video; Lab Zone CD; www.PHSchool: scn-0531, cep-5032, cep-5033; Discovery Channel School Video Field Trip: 102; Presentation Express CD; Teacher Express CD; Student Express CD; Student Edition on Audio CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u></p> <p>Survive? SE: 26</p>

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6-8 LS3G - Evidence for evolution includes similarities among anatomical and cell structures and patterns of development make it possible to infer degree of relatedness among organisms.	<p>From Bacteria to Plants SE/TE: 23; Figures: 23 TE only: Teach Key Concepts: 23; Monitor Progress: 23 TECH: Presentation Express CD; Teacher Express CD; Student Express CD; Student Edition on Audio CD; Online Textbook</p> <p>Animals SE/TE: 10, 110-111; Figure: 10, 111 TE only: Differentiated Instruction: 110; Teach Key Concepts; 110; Build Inquiry: 110 TECH: Presentation Express CD; Teacher Express CD; Student Express CD; Student Edition on Audio CD; Online Textbook</p> <p><u>EVENT-BASED SCIENCE</u> Gold Medal! SE: 18, 19</p>
Performance Expectations	
Students are expected to:	
Explain and provide evidence of how biological evolution accounts for the diversity of species on Earth today.	<p>Cells and Heredity SE/TE: 136-147, 148-154; Key Terms: 136, 148; Target Reading Skills: 136, 148; Discover Activity: 136, 148; Chapter Project: 137; Figure: 149, 159; Try This Activity: 141; Skill Activity: 143, 150; Skills Lab: 146-147, 154 TE only: Differentiated Instruction: 139, 149, 151;; Build Inquiry: 141, 143, 144, 150; Use Visuals: 144; Monitor Progress: 139, 141, 149, 151; Teach Key Concepts: 139, 140, 142, 143, 149, 151; Teacher Demo: 152; Section Assessment: 145, 153; Writing in Science: 145, 153; Review Key Concepts: 153; Reteach: 153; Performance Assessment: 137, 153; Help Students Read: 142, 150 TR: Key Term Review: 318; Transparency: C46; Reading Strategy Transparency: C40, 41; Performance Assessment Teacher Notes: 325; Performance Assessment Scoring: 326; Performance Assessment Student Worksheet: 327; Chapter Test: 328-331; Chapter Project Teacher Notes: 286-287; Chapter Project Student Overview: 288-289; Chapter Project Scoring Rubric: 290-291; Guided Reading: 295-297, 305-306, 313-315; Transparencies: C42, 43, 44; Section Summary: 294, 304; Review and Reinforce: 298, 307; Enrich: 299, 308; Skills Lab Worksheet: 300-302, 309-310</p>

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(Continued)	<p>(Continued) TECH: NSTA PDLINK: SCF-0350; PHSchool.com: SciLinks:scn-0351, SCN-0352; Discovery Channel School Video Preview: 137; Discovery Channel School Video Field Trip: 139; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Survive TG: 18-22 SE: 23, 36-43, 45 TECH: Video: Survive</p>
<p>Explain that information on how cells are to grow and function is contained in genes in the chromosomes of each cell nucleus and that during the process of reproduction the genes are passed from the parent cells to offspring.</p>	<p>Cells and Heredity SE: 92-96, 97-103; Key Terms: 92, 97; Target Reading Skills: 92, 97; Discover Activity: 92, 97; Discovery Channel School Video Field Trip: 102; Skills Activity: 99; Writing in Science: 96, 103 TE only: Address Misconceptions: 74H, 102; Build Inquiry: 95, 99, 101; Differentiated Instruction: 93, 95, 98, 101; Monitor Progress: 93, 95, 99, 101, 103; Performance Assessment: 103; Teach Key Concepts: 93, 94, 96, 98, 99, 102; Use Visuals: 100 TR: All-In-One: Guided Reading: 195-196, 201-204; Transparency: C28, 30, 31; Section Summary: 194, 200; Review and Reinforce: 197, 205; Enrich: 198, 206 TECH: Active Art: cep-3034; SciLinks.org: scn-0333; Discovery Channel School Video CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Survive SE: 10, 12, 29-31, 52 TE: 15-17 Outbreak SE: 40</p>

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<p>Identify sexually and asexually reproducing plants and animals. Explain why offspring that result from sexual reproduction are likely to have more diverse characteristics than offspring that result from asexual reproduction.</p>	<p>Cells and Heredity SE: 84-89, 92-96, 97-103; Key Terms: 84, 92, 97; Target Reading Skills: 84, 92, 97; Discover Activity: 84, 92, 97; Reading Checkpoint: 86, 88, 89; Discovery Channel School Video Field Trip: 102; Skills Activity: 99; Writing in Science: 96, 103; Math Analyzing Data: 88; Math Practice; 89; Section Assessment: 89 TE only: Address Misconceptions: 74H, 102; Build Inquiry: 95, 99, 101; Differentiated Instruction: 85, 87, 93, 95, 98, 101; Monitor Progress: 85, 87, 89, 93, 95, 99, 101, 103; Performance Assessment: 103; Teach Key Concepts: 85, 86, 88, 93, 94, 96, 98, 99, 102; Teacher Demo: 87; Use Visuals: 87, 100; Help Students Read: 86 TR: All-In-One: Guided Reading: 185-187, 195-196, 201-204; Transparency: C26, 28, 30, 31; Section Summary: 184, 194, 200; Review and Reinforce: 188, 197, 205; Enrich: 189, 198, 206 TECH: Active Art: cep-3034; SciLinks.org: scn-0332, scn-0333; Discovery Channel School Video CD; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 27, 32, 33</p>
<p>Describe that in sexual reproduction the offspring receive genetic information from both parents and therefore differ from the parents. Predict the outcome of specific genetic crosses involving one characteristic (using principles of Mendelian genetics). Explain the survival value of genetic variation.</p>	<p>Cells and Heredity SE/TE: 74-83, 108-110; Key Terms: 76, 108; Target Reading Skills: 76, 108; Discover Activity: 76, 108; Chapter Project: 109; Skill Activity: 80; Skills Lab: 82-83; Math Practice: 85; Section Assessment: 83, 89, 103; At Home Activity: 81; Discovery Channel School Video Preview: 75, 109; Discovery Channel School Video Field Trip: 102 TE only: Differentiated Instruction: 77, 79, 101; Address Misconceptions: 108F, 127; Build Inquiry: 78, 79; Figure: 77; Use Visuals: 79; Teach Key Concepts: 77, 78, 111, 113, 115, 118, 119, 120, 125, 126, 128; Monitor Progress: 77, 79, 81; Review Key Concepts: 116, 120, 128; Reteach: 103, 116, 120, 128; Performance Assessment: 109, 128; Graphic Organizer: 133; Think Critically: 134</p>

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(continued)	<p>(continued) TR: All-In-One: Key Term Review: 260; Transparency: C39, 33; Reading Strategy Transparency: C24; Guided Reading: 175-177, 185-187; Transparencies: C25; Section Summary: 174, 184; Review and Reinforce: 178, 188; Enrich: 179, 189; Skills Lab Worksheet: 180-182 TECH: PHSchool.com: ced-3031, scn-0332; Teacher Express CD; Student Audio CD; Presentation Express CD; Discovery Channel Video / DVD; Lab Activity Video; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Survive? SE: 30, 31</p>
Give an example of a plant or animal adaptation that would confer a survival and reproductive advantage during a given environmental change.	<p>Animals SE/TE: 96-97, 100-101, 119, 121, 124-125; Figure: 96; Try This Activity: 97; Reading Checkpoint: 121 TE only: Differentiated Instruction: 119; Teach Key Concepts: 96, 100, 119, 124-125; Address Misconceptions: 96, 101, 119; Build Inquiry: 97, 101, 120, 121; Monitor Progress: 97, 101, 121; Help Students Read: 121, 124 TR: All-In-One: Guided Reading: 253-255; Section Summary: 252; Review and Reinforce: 256; Enrich: 257 TECH: PHSchool.com: ced-2034, cep-2041; Teacher Express CD; Student Audio CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Blight! SE: 1, 16, 34, 37 Fire! SE: 46 Survive? SE: 3, 13</p>

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<p>Given an ecosystem, predict which organisms are most likely to disappear from that environment when the environment changes in specific ways.</p>	<p>Environmental Science SE/TE: 13-21, 32-35; Key Terms: 13, 32; Target Reading Skills: 13, 32; Discover Activity: 13, 32; Skills Activity: 15, 30; Try This Activity: 19; Skills Lab: 21; Section Assessment: 20, 35; At Home Activity: 35 TE only: Differentiated Instruction; 14, 17, 34; Teach Key Concepts: 14, 16, 18, 33, 34; Build Inquiry: 15, 17, 19; Monitor Progress: 15, 17, 19, 33, 35; Reviewing Key Concepts: 20, 35; Reteach: 20, 35; Performance Assessment: 20, 35 TR: All-In-One: Skills Lab Worksheet: 61-63; Guided Reading: 57-58, 72-73; Section Summary: 56, 71; Review and Reinforce: 59, 74; Enrich: 60, 75; Transparencies: E4, 5, 9, 10 TECH: PHSchool.com: cep-5012, ceh-5010; SciLinks.org: scn-0514; Teacher Express CD; Student Audio CD; Presentation Express CD; Lab Activity Video; Lab Zone CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Can be developed using the following Survive TG: 18-23 SE: 36-51</p>
<p>Infer the degree of relatedness of two species, given diagrams of anatomical features of the two species (e.g., chicken wing, whale flipper, human hand, bee leg).</p>	<p>Animals SE/TE: 47-49, 87-88, 96-97, 100-101; Discover Activity: 47; Figure: 87, 101; Try This Activity: 97; Reading Checkpoint: 101 TE only: Teach Key Concepts: 48, 87, 96, 100; Address Misconceptions: 96, 101; Build Inquiry: 49, 97, 101; Monitor Progress: 49, 87, 97, 101; Help Students Read: 48 TR: All-In-One: Transparencies; B 15, 29, 30, 31 TECH: SciLinks.org: scn-0222; www.PHSchool.com: ced-2034; Teacher Express CD; Student Audio CD; Presentation Express CD; Online Text</p> <p><u>EVENT-BASED SCIENCE</u> Gold Medal! SE: 18, 19</p>