# OHIO SCIENCE ACADEMIC CONTENT STANDARDS, GRADE LEVEL INDICATORS

## PAGE(S) WHERE TAUGHT

(If submission is not a text, cite appropriate resource(s))

### EARTH AND SPACE SCIENCES:

#### The Universe:

1. Describe that stars produce energy from nuclear reactions and that processes in stars have led to the formation of all elements beyond hydrogen and helium.

   SE/TE: 828-830, 837
   TR: Easy Planner Chapter(s): 26
   TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

2. Describe the current scientific evidence that supports the theory of the explosive expansion of the universe, the Big Bang, over 10 billion years ago.

   SE/TE: 854-855
   TR: Easy Planner Chapter(s): 26
   TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

3. Explain that gravitational forces govern the characteristics and movement patterns of the planets, comets, and asteroids in the Solar System.

   SE/TE: 792-793, 803-809, 815-817
   TR: Easy Planner Chapter(s): 25
   TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

#### Earth Systems:

4. Explain the relationships of the oceans to the lithosphere and atmosphere (e.g. transfer of energy, ocean currents, landforms).

   TR: Easy Planner Chapter(s): 23
   TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

#### Processes that Shape the Earth:

5. Explain how the slow movement of material within Earth results from
   a. thermal energy transfer (conduction and convection) from the deep interior
   b. the action of gravitational forces on regions of different density.

   SE/TE: 159-161, 164
   TR: Easy Planner Chapter(s): 22
   TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

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SE = Student Edition  
TE = Teacher’s Edition  
TR = Teaching Resources  
TECH = Technology
<table>
<thead>
<tr>
<th>OHIO SCIENCE ACADEMIC CONTENT STANDARDS, GRADE LEVEL INDICATORS</th>
<th>PAGE(S) WHERE TAUGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Explain the results of plate tectonics activity (e.g., magma generation, igneous intrusion, metamorphism, volcanic action, earthquakes, faulting and folding).</td>
<td>SE/TE: 162, 165-168, 169 TR: Easy Planner Chapter(s): 22 TECH: <a href="http://www.phschool.com">www.phschool.com</a>: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM</td>
</tr>
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<td>7. Explain sea-floor spreading and continental drift using scientific evidence (e.g., fossil distributions, magnetic reversals and radiometric dating).</td>
<td>SE/TE: 158-164, 165-169, 173-175, 176-177 TR: Easy Planner Chapter(s): 22 TECH: <a href="http://www.phschool.com">www.phschool.com</a>: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM</td>
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<td>8. Use historical examples to explain how new ideas are limited by the context in which they are conceived; are often initially rejected by the scientific establishment; sometimes spring from unexpected findings; and usually grow slowly through contributions from many different investigators (e.g., heliocentric theory, plate tectonics theory, atomic theory, quantum theory, Newtonian mechanics).</td>
<td>SE/TE: 361-364, 380-382, 789-792, 809, 816-817, 818-820 TR: Easy Planner Chapter(s): 25 TECH: <a href="http://www.phschool.com">www.phschool.com</a>: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM</td>
</tr>
</tbody>
</table>

**PHYSICAL SCIENCE:**

**Nature of Energy:**

<p>| 11. Explain how thermal energy exists in the random motion and vibrations of atoms and molecules (kinetic energy). Recognize that the higher the temperature, the greater the average atomic or molecular motion (potential energy), and during changes of state the temperature remains constant. | SE/TE: 474, 475-476, 478-480, TR: Easy Planner Chapter(s): 16 TECH: <a href="http://www.phschool.com">www.phschool.com</a>: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 12. Explain how an object’s kinetic energy depends on its mass and its speed. | SE/TE: 447-448 TR: Easy Planner Chapter(s): 15 TECH: <a href="http://www.phschool.com">www.phschool.com</a>: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 13. Demonstrate that near Earth’s surface an object’s gravitational potential energy depends upon its weight (mg where m is the object’s mass and g is the acceleration due to gravity) and height (h) above a reference surface. | SE/TE: 448-452, 456-458, 460, 461 TR: Easy Planner Chapter(s): 15 TECH: <a href="http://www.phschool.com">www.phschool.com</a>: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |</p>
<table>
<thead>
<tr>
<th>OHIO SCIENCE ACADEMIC CONTENT STANDARDS, GRADE LEVEL INDICATORS</th>
<th>PAGE(S) WHERE TAUGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>
| 14. Summarize how nuclear reactions convert a small amount of matter into a large amount of energy. (Fission involves the splitting of a large nucleus into smaller nuclei; fusion is the joining of two small nuclei into a larger nucleus at extremely high energies.) | SE/TE: 308-313, 315-316  
TR: Easy Planner Chapter(s): 10  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 15. Trace the transformations of energy within a system (e.g., chemical to electrical to mechanical) and recognize that energy is conserved. Show that these transformations involve the release of some thermal energy. | SE/TE: 450-452, 455-458, 460-461  
TR: Easy Planner Chapter(s): 15  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 16. Illustrate that chemical reactions are either endothermic or exothermic (e.g., cold packs, hot packs and the burning of fossil fuels). | SE/TE: 86-87  
TR: Easy Planner Chapter(s): 3  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 17. Demonstrate that thermal energy can be transferred by conduction, convection or radiation (e.g., through materials by the collision of particles, moving air masses or across empty space by forms of electromagnetic radiation. | SE/TE: 479-481  
TR: Easy Planner Chapter(s): 16  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 18. Demonstrate that electromagnetic radiation is a form of energy. Recognize that light acts as a wave. Show that visible light is a part of the electromagnetic spectrum (e.g., radio waves, microwaves, infrared, visible light, ultraviolet, X-rays, and gamma rays). | SE/TE: 539-545, 558-562  
TR: Easy Planner Chapter(s):18  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 19. Show how the properties of a wave depend on the properties of the medium through which it travels. Recognize that electromagnetic waves can be propagated without a medium. | SE/TE: 546-551, 556-557, 559-587  
TR: Easy Planner Chapter(s): 18, 19  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 20. Describe how waves can superimpose on one another when propagated in the same medium. Analyze conditions in which waves can bend around corners, reflect off surfaces, are absorbed by materials they enter, and change direction and speed when entering a different material. | SE/TE: 570-573, 574  
TR: Easy Planner Chapter(s): 19  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
<table>
<thead>
<tr>
<th>OHIO SCIENCE ACADEMIC CONTENT STANDARDS, GRADE LEVEL INDICATORS</th>
<th>PAGE(S) WHERE TAUGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Earth/Space 10th-Earth Systems:</strong></td>
<td>(If submission is not a text, cite appropriate resource(s))</td>
</tr>
</tbody>
</table>
| 2. Explain climate and weather patterns associated with certain geographic locations and features (e.g., tornado alley, tropical hurricanes and lake effect snow) | SE/TE: 744-787  
TR: Easy Planner Chapter(s): 24  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 3. Explain how geologic time can be estimated by multiple methods (e.g., rock sequences, fossil correlation, radiometric dating). | SE/TE: 732-738  
TR: Easy Planner Chapter(s): 23  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| **Processes that Change the Earth:**                         |                      |
| 7. Explain sea-floor spreading and continental drift using scientific evidences (e.g., fossil distributions, magnetic reversals and radiometric dating) | SE/TE: 676-682  
TR: Easy Planner Chapter(s): 22  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| **Processes that Shape the Earth:**                         |                      |
| 6. Explain the results of plate tectonics activity (e.g., magma generation, igneous intrusion, metamorphism, volcanic action, earthquakes, faulting and folding). | SE/TE: 683-696  
TR: Easy Planner Chapter(s): 22  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| **The Universe:**                                            |                      |
| 2. Describe the current scientific evidence that supports the theory of the explosive expansion of the universe, the Big Bang, over 10 billion years ago. | SE/TE: 854-855  
TR: Easy Planner Chapter(s): 26  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
<table>
<thead>
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<th>PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))</th>
</tr>
</thead>
<tbody>
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<td></td>
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</tbody>
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| 8. Use historical examples to explain how new ideas are limited by the context in which they are conceived; are often initially rejected by the scientific establishment; sometimes spring from unexpected findings; and usually grow slowly through contributions from many different investigators (e.g., heliocentric theory and plate tectonics theory). | SE/TE: 361-364, 380-382, 789-792, 809, 816-817  
TR: Easy Planner Chapter(s): 12, 25  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |

<table>
<thead>
<tr>
<th>Nature of Matter:</th>
<th></th>
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</thead>
</table>
| 1. Recognize that all atoms of the same element contain the same number of protons, and elements with the same number of protons may or may not have the same mass. Those with different masses (different numbers of neutrons) are called isotopes. | SE/TE: 98-99, 108-113  
TR: Easy Planner Chapter(s): 4  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 2. Illustrate that atoms with the same number of positively charged protons and negatively charged electrons are electrically neutral. | SE/TE: 114-115, 118  
TR: Easy Planner Chapter(s): 4  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 3. Describe radioactive substances as unstable nuclei that undergo random spontaneous nuclear decay emitting particles and/or high energy wavelike radiation. | SE/TE: 292-295, 297-301  
TR: Easy Planner Chapter(s): 10  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 4. Show that when elements are listed in order according to the number of protons (called the atomic number), the repeating patterns of physical and chemical properties identify families of elements. Recognize that the periodic table was formed as a result of the repeating pattern of electron configurations. | SE/TE: 126-127, 131-145  
TR: Easy Planner Chapter(s): 5  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 5. Describe how ions are formed when an atom or a group of atoms acquire an unbalanced charge by gaining or losing one or more electrons. | SE/TE: 158-161, 164  
TR: Easy Planner Chapter(s): 6  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
<table>
<thead>
<tr>
<th>OHIO SCIENCE ACADEMIC CONTENT STANDARDS, GRADE LEVEL INDICATORS</th>
<th>PAGE(S) WHERE TAUGHT</th>
</tr>
</thead>
</table>
| **6.** Explain that the electric force between the nucleus and the electrons hold an atom together. Relate that on a larger scale, electric forces hold solid and liquid materials together (e.g., salt crystals, water). | SE/TE: 162, 165-168, 169  
TR: Easy Planner Chapter(s): 6  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| **7.** Show how atoms may be bonded together by losing, gaining or sharing electrons and that in a chemical reaction, the number, type of atoms and total mass must be the same before and after the reaction (e.g., writing correct chemical formulas, and writing balanced chemical equations). | SE/TE: 158-164, 165-169, 173-175, 176-177  
TR: Easy Planner Chapter(s): 6  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| **8.** Demonstrate the pH scale (0-14) that is used to measure acidity and classify solutions as acidic, basic or neutral substances. | SE/TE: 246-249  
TR: Easy Planner Chapter(s): 8  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| **9.** Investigate the properties of pure substances and mixtures (e.g., density, conductivity, hardness, properties of alloys, superconductors and semiconductors). | SE/TE: 41-42, 42-44, 46, 50, 150-151, 178-181, 182-183  
TR: Easy Planner Chapter(s): 2, 5, 6  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| **10.** Compare the conductivity of different materials and explain the role of electrons in the ability to conduct electricity. | SE/TE: 598-605  
TR: Easy Planner Chapter(s): 20  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |

**Forces and Motion:**

| 21. Demonstrate that motion is a measurable quantity that depends on the observer’s frame of reference and describe the object’s motion in terms of position, velocity, acceleration and time. | SE/TE: 328-341, 364-377  
TR: Easy Planner Chapter(s): 11, 12  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 22. Demonstrate that any object does not accelerate (remains at rest or maintains a constant speed and direction of motion) unless an unbalanced (net) force acts. | SE/TE: 356-358, 364-365  
TR: Easy Planner Chapter(s): 12  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
<table>
<thead>
<tr>
<th>OHIO SCIENCE ACADEMIC CONTENT STANDARDS, GRADE LEVEL INDICATORS</th>
<th>PAGE(S) WHERE TAUGHT (If submission is not a text, cite appropriate resource(s))</th>
</tr>
</thead>
</table>
| 23. Explain the change in motion (acceleration) of an object. Demonstrate that the acceleration is proportional to the net force acting on the object and inversely proportional to the mass of the object. \( F_{\text{net}} = ma \). Note that weight is the gravitational force on a mass. | SE/TE: 365-377  
TR: Easy Planner Chapter(s): 12  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 24. Demonstrate that whenever one object exerts a force on another, an equal amount of force is exerted back on the first object. | SE/TE: 356-357, 372-377  
TR: Easy Planner Chapter(s): 12  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 25. Demonstrate the ways in which frictional forces constrain the motion of objects (e.g., a car traveling around a curve, a block on an inclined plane, a person running, an airplane in flight). | SE/TE: 359-360  
TR: Easy Planner Chapter(s): 12  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |

**Historical Perspectives & Scientific Revolutions:**

| 26. Use historical examples to explain how new ideas are limited by the context in which they are conceived; are often initially rejected by the scientific establishment; sometimes spring from unexpected findings; and usually grow slowly through contributions from many different investigators (e.g., atomic theory, quantum theory, Newtonian mechanics) | SE/TE: 100-107, 113-119, 363-364, 126-129, 312-313  
TR: Easy Planner Chapter(s): 4, 5, 10, 12  
TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 27. Describe advances and issues in physical science that have important, long-lasting effects on science and society (e.g., atomic theory, quantum theory, Newtonian mechanics, nuclear energy, nanotechnology, plastics and ceramics and communication technology) | SE/TE: 106-107, 306-307, 422-423, 532-545, 580, 587, 614, 622, 640-641  
TR: Easy Planner Chapter(s): 4, 10, 14, 18, 19, 20, 21  
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**SCIENCE AND TECHNOLOGY:**

**Understanding Technology:**

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**SE = Student Edition**  **TE = Teacher’s Edition**  **TR = Teaching Resources**  **TECH = Technology**
### Abilities to Do Technological Design:

2. Identify a problem or need, propose designs and choose among alternative solutions for the problem.

   - **TECH:** www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

3. Explain why a design should be continually assessed and the ideas of the design should be tested, adapted and refined.

   - **TECH:** www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

### SCIENTIFIC INQUIRY:

#### Doing Scientific Inquiry:

1. Distinguish between observations and inferences given a scientific situation

   - **SE/TE:** 3, 8, 232, 233, 243, 273, 429, 438, 467, 493, 623, 648, 864
   - **TECH:** www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

2. Research and apply appropriate safety precautions when designing and conducting scientific investigations (i.e., OSHA, Material Safety Data Sheets [MSDS], eyewash, goggles and ventilation).

   - **SE/TE:** 203, 2214, 220, 297, 438, 453, 424, 467, 493, 623, 648, 868-869
   - **TECH:** www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

3. Construct, interpret and apply physical and conceptual models that represent or explain systems.

   - **SE/TE:** 232, 268, 294, 314, 316, 339, 347, 366, 438, 467, 493, 505, 560, 647, 688, 870-871
   - **TECH:** www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

4. Decide what degree of precision based on the data is adequate and round off the results of calculator operations to the proper number of significant figures to reasonably reflect those of the inputs.

   - **SE/TE:** 299, 467, 505, 515, 544, 560, 623, 671, 872-879
   - **TECH:** www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM
<table>
<thead>
<tr>
<th>OHIO SCIENCE ACADEMIC CONTENT STANDARDS, GRADE LEVEL INDICATORS</th>
<th>PAGE(S) WHERE TAUGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Develop oral and written presentations using clear language, accurate data, appropriate graphs, tables, maps and available technology.</td>
<td>SE/TE: 211, 218, 238, 274, 438, 467, 493, 560, 648&lt;br&gt;TECH: <a href="http://www.phschool.com">www.phschool.com</a>: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM</td>
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**SCIENTIFIC WAYS OF KNOWING:**

**Nature of Science:**

1. Comprehend that many scientific investigations require the contributions of women and men from different disciplines in and out of science. These people study different topics, use different techniques and have different standards of evidence but share a common purpose – to better understand a portion of our universe.  
   SE/TE: 12, 250-251, 284, 382, 422, 423, 483, 484-485, 488, 517, 518-519, 522-523, 556-557, 795<br>TR: Easy Planner Chapter(s): 8, 9, 12, 14, 16, 17, 25<br>TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

2. Illustrate that the methods and procedures used to obtain evidence must be clearly reported to enhance opportunities for further investigations.  
   SE/TE: 8, 9, 10, 426, 640<br>TR: Easy Planner Chapter(s): 1, 14, 21<br>TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

3. Demonstrate that reliable scientific evidence improves the ability of scientists to offer accurate predictions.  
   SE/TE: 341, 377, 446, 687, 774, 810<br>TR: Easy Planner Chapter(s): 11, 12, 15, 22, 24, 25<br>TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

**Ethical Practices:**

4. Explain how support of ethical practices in science (e.g., individual observations and confirmations, accurate reporting, peer review and publication) are required to reduce bias.  
   SE/TE: 9<br>TR: Easy Planner Chapter(s): 1<br>TECH: www.phschool.com: Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM

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</tr>
</thead>
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<tr>
<td><strong>Scientific Theories:</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 5. Justify that scientific theories are explanations of large bodies of information and/or observations that withstand repeated testing. | SE/TE: 292, 308, 534, 677, 818  
TR: Easy Planner Chapter(s): 10, 18, 22, 25  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 6. Explain that inquiry fuels observation and experimentation that produce data that are the foundation of scientific disciplines. Theories are explanations of these data. | SE/TE: 22, 102, 105, 600, 630, 677, 687, 730, 746, 689, 838, 854  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 7. Recognize that scientific knowledge and explanations have changed over time, almost always building on earlier knowledge. | SE/TE: 114-115, 338-339, 340, 416, 476, 681, 791  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| **Science and Society:** | |
| 8. Illustrate that much can be learned about the internal workings of science and the nature of science from the study of scientists, their daily work and their efforts to advance scientific knowledge in their area of study. | SE/TE: 252-253, 292, 484  
TR: Easy Planner Chapter(s): 8, 10, 16  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |
| 9. Investigate how the knowledge, skills and interests learned in science classes apply to the careers students plan to pursue. | SE/TE: 34-35, 210-211, 297, 307, 324-325, 461, 554-555, 656-657  
TR: Easy Planner Chapter(s): 1, 7, 10, 15, 18, 21  
TECH: [www.phschool.com](http://www.phschool.com): Resource Pro CD-ROM; Computer Test Generator CD; Prentice Hall Presentation Pro CD; iText Online and CD-ROM |