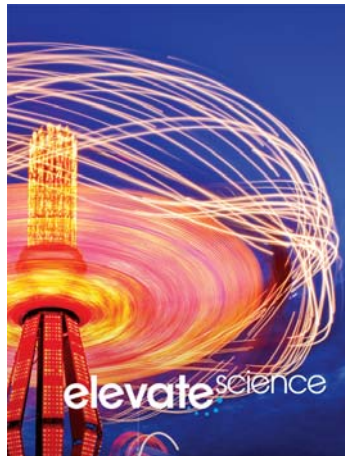


A Correlation of
Elevate Science
Kindergarten – Grade 4
©2019



To the
Pennsylvania
Assessment Anchors for Science
Kindergarten – Grade 4

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Introduction

The following document demonstrates how the ***Elevate Science, ©2019*** program supports the **Pennsylvania Assessment Anchors for Science, Grades K-4**. For each standard, correlation references are to the Student Edition and Teacher Edition where applicable.

Elevate Science is a comprehensive K-5 science program that focuses on active, student-centered learning. It builds students' critical thinking, questioning, and collaboration skills, and fuels interest in STEM and creative problem solving while supporting literacy development for elementary-age learners. Developed to support Next Generation Science Standards (NGSS), ***Elevate Science*** integrates three dimensional learning of the Scientific and Engineering Practices, Crosscutting Concepts (CCC), and Disciplinary Core Ideas (DCIs).

The ***Elevate Science*** blended print and digital curriculum engages students in phenomena-based inquiry and hands-on investigations.

- Problem-based learning Quests put students on a journey of discovery
- Engineering-focused features infuse STEM learning
- Coding and innovation engage students and build 21st century skills

The Teacher's Edition of ***Elevate Science*** helps elementary educators teach science with confidence: Scaffolding, ELD, differentiated instruction, and an instructional organization based upon the 5E learning model, (Engage, Explore, Explain, Extend/Elaborate, Evaluate), provide all the support needed for successful teaching practices. Professional development offers point-of-use support. A full-view approach to inquiry and testing provides new options for a variety of hands-on labs and assessments for three-dimensional learning.

Elevate Science prepares students for the challenges of tomorrow, building strong reasoning skills and critical thinking strategies as they engage in explorations, formulate claims, and gather and analyze data that promote evidence-based argument. Designed for today's classroom, preparing students for tomorrow's world. ***Elevate Science*** promises to:

- Elevate thinking.
- Elevate learning.
- Elevate teaching.

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Table of Contents

3.1.4 Unifying Themes	4
3.2.4 Inquiry and Design.....	11
3.3.4 Biological Sciences.....	22
3.4.4 Physical Science, Chemistry and Physics.....	27
3.5.4 Earth Sciences	31
3.6.4 Technology Education	36
3.7.4 Technological Devices	39
3.8.4 Science, Technology and Human Endeavors	42

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.1.4 Unifying Themes	
3.1.4.A Know that natural and human-made objects are made up of parts.	
3.1.4.A.1 Identify and describe what parts make up a system.	Grade 4 SE/TE: Crosscutting Concepts Toolbox: Systems, 36
3.1.4.A.2 Identify system parts that are natural and human-made (e.g., ball point pen, simple electrical circuits, plant anatomy).	Grade 1 SE/TE: uInvestigate Lab: What do the parts of a plant look like?, 149 Grade 2 SE/TE: uInvestigate Lab: What is inside a seed or a bulb?, 155 Grade 4 SE/TE: Crosscutting Concepts Toolbox: Systems, 36 Electric Circuits, 38 Seeing Objects, 127 The Respiratory System, 343
3.1.4.A.3 Describe the purpose of analyzing systems.	Grade 4 SE/TE: Crosscutting Concepts Toolbox: Systems, 36 Seeing Objects, 127
3.1.4.A.4 Know that technologies include physical technology systems (e.g., construction, manufacturing, transportation), informational systems and biochemical-related systems.	Grade 2 SE/TE: Career Connection: Structural Engineer, 69 Grade 3 SE/TE: Quest Check-In Lab: How can a roof be improved?, 116-117 Grade 4 SE/TE: Engineering Connection, 6 STEM Quest Check-In Lab: How can an electric circuit help prevent collisions?, 40-41 Engineering Connection, 74 STEM Engineering Connection, 226

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>3.1.4.B Know models as useful simplifications of objects or processes.</p>	
<p>3.1.4.B.1 Identify different types of models.</p>	<p>Grade 1 SE/TE: uConnect Lab: How can you make a model of a plant?, 146 Science Practices: Explanations, EM6</p> <p>Grade 2 SE/TE: Quest Check-In: How do you use shapes when building?, 24-25 Quest Findings: Toy Building Kit, 34 uDemonstrate Lab: How can you compare different solutions?, 146-147</p> <p>Grade 3 SE/TE: Model It!, 9 Quest Check-In Lab: How can a roof be improved?, 116-117 uEngineer It!: Rebuilding Dinosaurs, 276-277</p> <p>Grade 4: SE/TE: Career Connection: Vehicle Safety Engineer, 43 Design It!, 127 uConnect Lab: How can you reduce the impact of rapidly sliding soil?, 206 uInvestigate Lab: Where should you build an earthquake-safe structure?, 227 Brain, 362</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>3.1.4.B.2 Identify and apply models as tools for prediction and insight.</p>	<p>Grade K SE/TE: Quest Check-In: How does the wind move?, 134-135 uInvestigate Lab, 157 Design a Solution, EM10</p> <p>Grade 1 SE/TE: uInvestigate Lab: How does size affect sound?, 7 uInvestigate Lab: How does the sun cause seasons?, 95 uInvestigate Lab: How can you make it rain?, 127 uInvestigate Lab: What happens to a water plant out of water?, 169 uDemonstrate Lab: How do the spines of cacti help them?, 182-183</p> <p>Grade 2 SE/TE: uEngineer It!: Design a Nutcracker, 12-13 uInvestigate Lab: What can beavers teach engineers?, 15 uEngineer It!: Improve a Dam!, 96-97 uConnect Lab: Which solution is better?, 116 Quest Check-In Lab: How can you protect a coastal town from erosion?, 136-137</p> <p>Grade 4 SE/TE: Quest Check-in: How can an electric circuit help prevent collisions?, 40-41 How does a windmill capture wind energy?, 75 How do we describe waves? , 104 uInvestigate Lab: How does a wave carry energy?, 107 uBe a Scientist: Earthquake Evidence, 210 uInvestigate Lab: Which parts of the body are more sensitive?, 359</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.1.4.B.3 Apply appropriate simple modeling tools and techniques.	<p>Grade K SE/TE: STEM Quest Check-In: How can you build your sail car?, 16-17 Quest Check-In: How does wind move my sail car?, 26 uInvestigate Lab, 109</p> <p>Grade 1: SE/TE: uInvestigate Lab: How does size affect sound?, 7 uDemonstrate Lab: Which instrument can you use to make sound?, 34-35 uInvestigate Lab: How can you use light to see?, 59 uInvestigate Lab: How does the sun cause seasons?, 95 uInvestigate Lab: How can you make it rain?, 127 Explanations, EM6</p> <p>Grade 2 SE/TE: uEngineer It!: Design a Nutcracker, 12-13 uInvestigate Lab: What can beavers teach engineers?, 15 uEngineer It!: Improve a Dam!, 96-97" uConnect Lab: Which solution is better?, 116 Quest Check-In Lab: How can you protect a coastal town from erosion?, 136-137" Explanations, EM6</p> <p>Grade 3: SE/TE: Model It!, 59 uEngineer It!: Rebuilding Dinosaurs, 276-277</p> <p>Grade 4 SE/TE: STEM Quest Check-in: How does modeling help you understand a collision? , 22-23 Developing and Using Models, EM6 Using Models and Prototypes, EM12</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.1.4.B.4 Identify theories that serve as models (e.g., molecules).	
3.1.4.C Illustrate patterns that regularly occur and reoccur in nature.	
3.1.4.C.1 Identify observable patterns (e.g., growth patterns in plants, crystal shapes in minerals, climate, structural patterns in bird feathers).	<p>Grade K: SE/TE: <ul style="list-style-type: none"> uInvestigate Lab: What can the sun do?, 79 Connecting Concepts Toolbox: Patterns, 118 Quest Check-In: Predict the Weather, 121 uInvestigate Lab: What is the weather like in different seasons?, 123 uDemonstrate Lab: What is the weather like?, 142-143 uInvestigate Lab: How do plants get water?, 151 Crosscutting Concepts Toolbox: Patterns, 152 Crosscutting Concepts Toolbox: Patterns, 166 uInvestigate Lab: How does a plant grow and change?, 171 </p> <p>Grade 1: SE/TE: <ul style="list-style-type: none"> uInvestigate Lab: How can you observe sun patterns?, 87 uInvestigate Lab: How does the sun cause seasons?, 95 Quest Check-In Lab: How can you model the motions of the Earth?, 98-99 Quest Check-In Lab: How does the season affect the amount of daylight?, 132-133 uDemonstrate Lab: How does weather change in a week?, 140-141 Quest Check-In: How do snowshoe hares stay safe?, 174-175 Quest Check-In: How are the life cycles alike and different?, 194-195 Connecting Concepts Toolbox: Patterns, 211 </p> <p>Grade 2 SE/TE: <ul style="list-style-type: none"> Crosscutting Concepts Toolbox: Patterns, 17 </p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
	<p>Grade 3: SE/TE: Simple Weather Instruments, 106 Crosscutting Concepts Toolbox: Patterns, 135 uInvestigate Lab: How do mountains affect climate?, 153 Crosscutting Concepts Toolbox: Patterns, 157 uConnect Lab: What clues do beak shapes give about birds?, 214</p> <p>Grade 4 SE/TE: Patterns of Mountains, 168 Crosscutting Concepts-Toolbox, Patterns, 169 Patterns of Earthquakes and Volcanoes, 169 uInvestigate Lab: What patterns do fossils follow?, 249 Quest Findings: Dig for the Truth, 268</p>
3.1.4.C.2 Use knowledge of natural patterns to predict next occurrences (e.g., seasons, leaf patterns, lunar phases).	<p>Grade 1: SE/TE: Quest Check-In: Stars in the Sky, 85 uInvestigate Lab: How can you observe sun patterns?, 87 Quest Check-In Lab: How can you model the motions of the Earth?, 98-99 Quest Findings: Sky Watchers, 102 uDemonstrate Lab: How do shadows change?, 108-109 Quest Check-In Lab: How does the season affect the amount of daylight?, 132-133</p> <p>Grade 3 SE/TE: uInvestigate Lab: How does the amount of water change over time?, 91</p> <p>Grade 4 SE/TE: How do wave patterns move?, 120-121 uBe a Scientist: Reaction Time, 362</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.1.4.D Know that scale is an important attribute of natural and human made objects, events and phenomena.	
3.1.4.D.1 Identify the use of scale as it relates to the measurement of distance, volume and mass.	<p>Grade 2 SE/TE: Understand a Map, 100 Quest Check-In Lab: How far is it from here to there?, 102</p> <p>Grade 4 SE/TE: Visual Literacy Connection: How can a physical map help me locate different landforms?, 170-171</p>
3.1.4.D.2 Describe scale as a ratio (e.g., map scales).	<p>Grade 2 SE/TE: Understand a Map, 100 Crosscutting Concepts Toolbox: Scale, Proportion, and Quantity, 101 Quest Check-In Lab: How far is it from here to there?, 102</p> <p>Grade 4 SE/TE: Visual Literacy Connection: How can a physical map help me locate different landforms?, 170-171</p>
3.1.4.D.3 Explain the importance of scale in producing models and apply it to a model.	<p>Grade 4 SE/TE: STEM Quest Check-In Lab: How can you make a model of a landform?, 182-183</p>
3.1.4.E Recognize change in natural and physical systems.	
3.1.4.E.1 Recognize change as fundamental to science and technology concepts.	<p>Grade 3 SE/TE: Change in Environmental Conditions, 240</p> <p>Grade 4 SE/TE: Habits of Mind, EM8</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.1.4.E.2 Examine and explain change by using time and measurement.	<p>Grade 2 SE/TE: Math Toolbox, 56</p> <p>Grade 3 SE/TE: uInvestigate Lab: How fast can it move?, 7</p> <p>Grade 4 SE/TE: Analyzing and Interpreting Data, EM4 Using Math, EM5</p>
3.1.4.E.3 Describe relative motion.	<p>Grade 3 SE/TE: Engineering Connection, 6 Position and Motion, 8 Model It!, 9 Relative Motion, 9 uInvestigate Lab: How can you describe the motion of an object?, 17</p> <p>Grade 4 SE/TE: Energy and Particle Motion, 28</p>
3.1.4.E.4 Describe the change to objects caused by heat, cold, light or chemicals.	<p>Grade 4 SE/TE: Energy and Particle Motion, 28</p>
3.2.4 Inquiry and Design	
3.2.4.A Identify and use the nature of scientific and technological knowledge.	
3.2.4.A.1 Distinguish between a scientific fact and a belief.	<p>Grade 4 SE/TE: Engaging in Arguments from Evidence, EM7</p>
3.2.4.A.2 Provide clear explanations that account for observations and results.	<p>Grade K SE/TE: uInvestigate Lab: What can you observe about water?, 57 uDemonstrate Lab: How is one object different?, 70-71 uInvestigate Lab: How does a plant grow and change?, 171 Quest Check-In Lab: How do caterpillars change?, 176-177</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>Continued</p>	<p>Grade 1 SE/TE: Suggested comment: Standard is addressed throughout Elevate Science in Labs and Investigations. Examples include:</p> <ul style="list-style-type: none"> uInvestigate Lab: What do the parts of a plant look like?, 149 uInvestigate Lab: How do whiskers help a cat?, 155" uInvestigate Lab: What can people learn from an acorn shell?, 163 uDemonstrate Lab: How do the spines of cacti help them?, 182-183 uConnect Lab: Which mouse is longer?, 188 uInvestigate Lab: How do plants grow and change?, 191 Quest Check-In: How are the life cycles alike and different?, 194-195 uInvestigate Lab: What do young plants look like?, 197 <p>Grade 2 SE/TE: Standard is addressed throughout Elevate Science in labs and investigations. Examples from Grade 2 Include:</p> <ul style="list-style-type: none"> uInvestigate Lab: How can you make a bigger bubble?, 27 uInvestigate Lab: How do volcanoes change Earth?, 119" uInvestigate Lab: How do mountains change?, 125 STEM Quest Check-In Lab: How does the ocean affect a coastal town?, 128 uInvestigate Lab: How do plants protect fields from wind?, 131 Quest Check-In Lab: How can you protect a coastal town from erosion?, 136-137 uConnect Lab: How are plants and animals alike and different?, 152 uInvestigate Lab: What is inside a seed or a bulb?, 155 uConnect Lab: What is out there?, 194

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>Continued</p>	<p>Grade 3 SE/TE: uConnect Lab: How do things move?, 4 uDemonstrate Lab: Why do objects move?, 48-49 uConnect Lab: How can temperature damage a house?, 88 uInvestigate Lab: How can you stop a flood?, 111</p> <p>Grade 4 SE/TE: uDemonstrate Lab: what affects energy transfer?, 48 -49 uDemonstrate Lab: How can you identify minerals?, 200-201 uInvestigate Lab: How does snow sliding quickly down a mountain impact people?, 219 uDemonstrate Lab: How can homes be designed to be more earthquake resistant?, 240-241 Quest Check in Lab: How can you observe a plant's vascular system in action?, 290-291</p>
<p>3.2.4.A.3 Relate how new information can change existing perceptions.</p>	<p>Grade 3 SE/TE: Analyzing and Interpreting Data, EM4</p> <p>Grade 4 SE/TE: Habits of Mind, EM8</p>
<p>3.2.4.B Describe objects in the world using the five senses.</p>	
<p>3.2.4.B.1 Recognize observational descriptors from each of the five senses (e.g., see-blue, feel-rough)</p>	<p>Grade K SE/TE: Quest Connection, 44 The Five Senses, 44-45</p> <p>Grade 1 SE/TE: Quest Connection, 171 Sensing Environments, 171</p> <p>Grade 4 SE/TE: Visual Literacy Connection: How do elephants respond to stimulus?, 318-319 Visual Literacy Connection: What are sensory organs?, 360-361</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>3.2.4.B.2 Use observations to develop a descriptive vocabulary.</p>	<p>Grade 2 SE/TE: uDemonstrate Lab: What makes something sink or float?, 40-41 uConnect Lab: How are plants and animals alike and different?, 152 uDemonstrate Lab: How does a plant make oxygen?, 188-189</p> <p>Grade 3 SE/TE: Standard is met throughout Elevate Science through questions, activates, labs and Investigations. Examples in Grade 3 include: uDemonstrate Lab: Why do objects move?, 48-49 uConnect Lab: How can temperature damage a house?, 88" uConnect Lab, 214 uConnect Lab, 256</p> <p>Grade 4 SE/TE: Quest Check-in Lab: What does a core sample tell us? , 266-267 Literacy Connection: Compare and Contrast, 281 uInvestigate Lab: How can you compare the stomachs of cows and dogs?, 301</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.2.4.C Recognize and use the elements of scientific inquiry to solve problems.	
3.2.4.C.1 Generate questions about objects, organisms and/or events that can be answered through scientific investigations.	<p>Grade K SE/TE: uConnect Lab: What if plants do not get what they need?, 148 uInvestigate Lab: How do plants get water?, 151 uInvestigate Lab: How does a plant grow and change?, 171 uInvestigate Lab: Who lives here?, 193 uDemonstrate Lab: How can an animal change where it lives?, 226-227</p> <p>Grade 1 SE/TE: Suggested comment: Standard is addressed throughout Elevate Science in Labs and Investigations. Examples include:</p> uConnect Lab: How can a ruler make sound?, 4 uInvestigate Lab: How does size affect sound?, 7 uInvestigate Lab: How can you see sound?, 13 Quest Check-In Lab: How can instruments talk?, 18-19 uInvestigate Lab: What does that sound say?, 21 Quest Check-In Lab: How can an instrument send a secret?, 25 uDemonstrate Lab: Which instrument can you use to make sound?, 34-35 uInvestigate Lab: What happens when an object blocks light?, 43" uInvestigate Lab: How do materials affect light?, 49 uDemonstrate Lab: How can I change a transparent material?, 72-73 uConnect Lab: What is it like outside today?, 114

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>Continued</p>	<p>uInvestigate Lab: Which way is the wind blowing?, 117 uInvestigate Lab: How can you make it rain?, 127 uDemonstrate Lab: How does weather change in a week?, 140-141</p> <p>Grade 2 SE/TE: Science Practice Toolbox: Plan an Investigation, 207 Questions, EM0</p> <p>Grade 3 SE/TE: uConnect Lab: How do things move?, 4 uInvestigate Lab: What makes it move?, 25 uInvestigate Lab: How can you hold up an object?, 35 uConnect Lab: How can you move objects without touching them?, 54 uInvestigate Lab: How can you make a magnet?, 67 uConnect Lab: How can temperature damage a house?, 88 Ask Questions, EM0</p> <p>Grade 4 SE/TE: uInvestigate Lab: How do we find oil?, 65 uInvestigate Lab: How does a wave carry energy?, 107 uInvestigate Lab: What patterns can waves make?, 117 uInvestigate Lab: How is light reflected?, 125 Quest Check-In Lab: How can you send a message with light?, 132-133 uInvestigate Lab: How can information from waves be translated?, 135 uDemonstrate Lab: How can you model a light or sound wave?, 148-149 uConnect Lab: How can you reduce the impact of rapidly sliding soil?, 206</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
Continued	uInvestigate Lab: How does snow sliding quickly down a mountain impact people?, 219 uInvestigate Lab: How can rock layers show change?, 259 uDemonstrate Lab: How can you correlate rock layers?, 274-275 Ask Question, EM0
3.2.4.C.2 Design an investigation.	<p>Grade 1 SE/TE: Investigations, EM11</p> <p>Grade 2 SE/TE: uConnect Lab: Which solution is better?, 116 How to Measure, EM5</p> <p>Grade 3 SE/TE: uConnect Lab , 4 uConnect Lab, 54</p> <p>Grade 4 SE/TE: uInvestigate Lab: How does starting height affect an object's energy?, 7 Design It!, 127 Quest Check-In Lab: How can you send a message with light?, 132-133</p>
3.2.4.C.3 Conduct an experiment.	<p>Grade K SE/TE: Engineering Toolbox: Conduct an Investigation, 9</p> <p>Grade 1 SE/TE: Standard is addressed throughout Elevate Science in Labs and Investigations.</p> <p>uConnect Lab: How can a ruler make sound?, 4 uConnect Lab: What is it like outside today?, 114" uInvestigate Lab: Which way is the wind blowing?, 117 uInvestigate Lab: How do plants grow and change?, 191</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>Continued</p>	<p>Grade 2 SE/TE: uInvestigate Lab: How does heating and cooling change matter?, 55 Visual Literacy: Sequence, 62-63 Quest Check-In Lab: How can you see the parts of a plant work?, 166-167 uInvestigate Lab: What do land plants need?, 205</p> <p>Grade 3 SE/TE: uDemonstrate Lab: Why do objects move?, 48-49</p> <p>Grade 4 SE/TE: uBe a Scientist: Force and Speed, 12 uInvestigate Lab: How do we find oil?, 65 uInvestigate Lab: How does a windmill capture wind energy?, 75 uInvestigate Lab: How does a wave carry energy?, 107 uBe a Scientist: Investigating Human Sounds, 109 uInvestigate Lab: How do tools help us?, 157 uConnect Lab: How do your eyes respond to differences in lighting?, 280 uInvestigate Lab: How can you locate an object using only sound?, 317 uDemonstrate Lab: How do earthworms respond to stimuli?, 332-333 uBe a Scientist: Reaction Time, 362</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>3.2.4.C.4 State a conclusion that is consistent with the information.</p>	<p>Grade K SE/TE: uInvestigate Lab: How can you model changing the environment?, 205</p> <p>Grade 1 SE/TE: Literacy Connection: Draw Conclusions, 5 Literacy Toolbox: Draw Conclusions, 15 Literacy Toolbox: Draw Conclusions, 24</p> <p>Grade 2 SE/TE: uConnect Lab: How are plants and animals alike and different?, 152 Quest Check in Lab, 166-167</p> <p>Grade 3 SE/TE: Literacy Connection: Draw Conclusions, 5 Literacy Toolbox: Draw Conclusions, 8 Land Features Affect Climate, 138 uInvestigate Lab: What do tree rings show?, 143 STEM Quest Check-In Lab: How are living things suited to their habitats?, 222-223 Changes Over Time, 280-281</p> <p>Grade 4 SE/TE: STEM Math Connection, 81 Literacy Connection: Draw Conclusions, 155 Literacy Toolbox: Draw Conclusions, 162 Quest Connection, 352 Quest Check-In: Injury Search, 357</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.2.4.D Recognize and use the technological design process to solve problems.	
3.2.4.D.1 Recognize and explain basic problems.	<p>Grade K SE/TE: Quest Check-In Lab: How can we save our trails?, 216-217</p> <p>Grade 2 SE/TE: Quest Findings: Protect a Habitat, 218</p> <p>Grade 3 SE/TE: uEngineer It! Define STEM, 192-193</p> <p>Grade 4 SE/TE: Quest Check-In Lab: How can you send a message with light?, 132-133 uDemonstrate Lab: How can you model a light or sound wave?, 148-149 uConnect Lab: How can you reduce the impact of rapidly sliding soil?, 206</p>
3.2.4.D.2 Identify possible solutions and their course of action.	<p>Grade K SE/TE: Quest Check-In: Staying Cool, 82 uEngineer It!: Sunny Days, 84-85</p> <p>Grade 1 SE/TE: Suggested comment: Standard is addressed throughout Elevate Science in Labs and Investigations. Quest Check-In Lab: How can you send secret messages?, 64-65 uEngineer It!: Design a Cooler!, 124-125" Design a Solution, EM11</p> <p>Grade 2 SE/TE: Quest Check-In: Prevent Floods, 123 Design a Solution, EM11</p> <p>Grade 3 SE/TE: Defining Problems, EM10 Designing Solutions, EM11</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>Continued</p>	<p>Grade 4 SE/TE: Quest Check-In Lab: How can you reduce hazard damage?, 232-233 Defining Problems, EM10 Designing Solutions, EM11</p>
<p>3.2.4.D.3 Try a solution.</p>	<p>Grade 1 SE/TE: Quest Check-In Lab: How can you send secret messages?, 64-65 uInvestigate Lab: Which way is the wind blowing?, 117</p> <p>Grade 3 SE/TE: Plants Respond to Seasonal Changes, 238-239</p> <p>Grade 4 SE/TE: Engineering Practice Toolbox: Spares and Strikes, 20 Quest Check-In Lab: How can you send a message with sound?, 123 uInvestigate Lab: How can information from waves be translated?, 135 Quest Kickoff: Protect the City! Hazard Incoming!, 204-205 uConnect Lab: How can you reduce the impact of rapidly sliding soil?, 206 uInvestigate Lab: Where should you build an earthquake-safe structure?, 227 Quest Check-In Lab: How can you reduce hazard damage?, 232-233 uDemonstrate Lab: How can homes be designed to be more earthquake resistant?, 240-241</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.2.4.D.4 Describe the solution, identify its impacts and modify if necessary.	<p>Grade 1 SE/TE: uEngineer It!: Windshield Safety, 56-57</p> <p>Grade 3 SE/TE: uEngineer It!: Have Your Fun, and Be Considerate Too!, 242-243</p> <p>Grade 4 SE/TE: Designing Solutions, EM11</p>
3.2.4.D.5 Show the steps taken and the results.	<p>Grade K SE/TE: Design a Solution, EM10</p> <p>Grade 1 SE/TE: Communication , EM9</p> <p>Grade 2 SE/TE: Define a Problem, EM10</p> <p>Grade 3 SE/TE: Defining Problems, EM10</p> <p>Grade 4 SE/TE: Defining Problems, EM10 Optimizing Solutions, EM13</p>
3.3.4 Biological Sciences	
3.3.4.A Know the similarities and differences of living things.	
3.3.4.A.1 Identify life processes of living things (e.g., growth, digestion, react to environment).	<p>Grade 1 SE/TE: uInvestigate Lab: How do plants grow and change?, 191</p> <p>Grade 2 SE/TE: Plant Life Cycles, 157 Butterfly Life Cycle, 158-159 Animal Life Cycles, 160 Quest Check in Lab, 161</p> <p>Grade 3 SE/TE: Plant Reproduction, 177 Animal Reproduction, 178</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
Continued	<p>Life Cycles, 179 How are life cycles the same?, 180-181 Visual Literacy Connection? How can environmental factors affect organisms?, 198-199</p> <p>Grade 4 SE/TE: Quest Check-in Lab: How can you observe a plant's vascular system in action?, 290-291 uDemonstrate Lab: How do earthworms respond to stimuli?, 332-333 uConnect Lab: Which body parts work together to do a task? , 338 uInvestigate Lab: How can you model how to breathe?, 341</p>
3.3.4.A.2 Know that some organisms have similar external characteristics (e.g., anatomical characteristics; appendages, type of covering, body segments) and that similarities and differences are related to environmental habitat.	<p>Grade 1 SE/TE: uConnect Lab: How can you make a model of a plant?, 146 Body Coverings and Ways of Breathing, 157 uInvestigate Lab: What can people learn from an acorn shell?, 163 Quest Check-In: How do snowshoe hares stay safe?, 174-175</p> <p>Grade 2 SE/TE: Plant Parts, 165</p> <p>Grade 3 SE/TE: Survival in Different Habitats, 220</p> <p>Grade 4 SE/TE: uBe a Scientist: Make a Plant Collection, 288 Quest Check-In Lab: How can you observe a plant's vascular system in action?, 290-291 uInvestigate Lab: How can you compare the stomachs of cows and dogs?, 301 uInvestigate Lab: How can you design a protective insect shell?, 309 Other External Structures of Animals, 312 Quest Findings: Let Plants and Animals Inspire You!, 326</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>3.3.4.A.3 Describe basic needs of plants and animals.</p>	<p>Grade K SE/TE: uInvestigate Lab: How do plants get water?, 151 Plants Need Water, 154 Animals Need Water, 159 Animals Need Air, 160 uDemonstrate Lab: What needs do pets have?, 184-185</p> <p>Grade 1 SE/TE: Animal Needs, 208</p> <p>Grade 2 SE/TE: Plants and Animals, 156 uInvestigate Lab: What do plants need to grow?, 163 What Plants Need, 164 uInvestigate Lab: What do animals need?, 169 Animals Need Things to Grow, 170 Animals Need Space to Move, 171 uDemonstrate Lab: How does a plant make oxygen?, 188-189</p> <p>Grade 3 SE/TE: Plan It!, 113 Quest Kickoff: Help the Pond Organisms Survive, 212-213 Survival in Different Habitats, 220 Quest Connection, 238 Topic Assessment, 246-247</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.3.4.B Know that living things are made up of parts that have specific functions.	
3.3.4.B.1 Identify examples of unicellular and multicellular organisms.	
3.3.4.B.2 Determine how different parts of a living thing work together to make the organism function.	<p>Grade K SE/TE: People are Animals, 166</p> <p>Grade 4 SE/TE: Quest Kickoff: Make a Human Body Road Map, 336-337 uConnect Lab: What body parts work together to do a task?, 338 Tissues, Organs, and Organ Systems, 342 The Respiratory System, 343</p>
3.3.4.C Know that characteristics are inherited and, thus, offspring closely resemble their parents.	
3.3.4.C.1 Identify characteristics for animal and plant survival in different climates.	<p>Grade K SE/TE: uInvestigate Lab: Which feet do the best job?, 157 Extreme Science: Hold It In!, 169</p> <p>Grade 1 SE/TE: Body Coverings and Ways of Breathing, 157 Quest Check-In: Different Shapes, Different Uses, 159 uInvestigate Lab: What can people learn from an acorn shell?, 163 uInvestigate Lab: What happens to a water plant out of water?, 169</p> <p>Grade 2 SE/TE: Living Things and Their Habitats, 199</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>Continued</p>	<p>Grade 3 SE/TE: Quest Check-In Lab: Which animals can live here?, 183 uInvestigate Lab: How do sea lions stay warm in cold waters?, 217 Visual Literacy Connection: How do living things adapt to survive?, 218-219 Solve It With Science: How can a spider stay underwater all day long?, 231 uDemonstrate Lab: How well will the rabbit survive?, 250-251</p>
<p>3.3.4.C.2 identify physical characteristics that appear in both parents and offspring and differ between families, strains or species.</p>	<p>Grade K SE/TE: Babies Look Different from their Parents, 173</p> <p>Grade 1 SE/TE: uInvestigate Lab: How do plants grow and change?, 191 uInvestigate Lab: What do young plants look like?, 197 Alike and Different, 198 Animals Are Alike, 201 Quest Check-In: Alike and Different, 203 Quest Findings: Find the Parents, 216 uDemonstrate Lab: How do living things change as they grow?, 222-223</p> <p>Grade 2 SE/TE: Animal Life Cycles, 160</p> <p>Grade 3 SE/TE: uInvestigate Lab: How do offspring compare to their parents?, 185 Traits from Parents, 186 Traits of Parents and Offspring, 187</p>
<p>3.3.4.D Identify changes in living things over time.</p>	
<p>3.3.4.D.1 Compare extinct life forms with living organisms.</p>	<p>Grade 3 SE/TE: Quest Connection, 261 Question It!, 264 Grade 4 SE/TE: Question It!, 261</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.4.4 Physical Science, Chemistry and Physics	
3.4.4.A Recognize basic concepts about the structure and properties of matter.	
3.4.4.A.1 Describe properties of matter (e.g., hardness, reactions to simple chemical tests).	<p>Grade K SE/TE: Quest Check-In: How can you observe and sort objects, 54 uDemonstrate Lab: How is one object different?, 70-71</p> <p>Grade 2 SE/TE: uInvestigate Lab: What is different?, 7 Quest Check-In: Observe, Measure, Test?, 19</p> <p>Grade 4 SE/TE: Minerals, 180</p>
3.4.4.A.2 Know that combining two or more substances can make new materials with different properties.	This standard is not addressed until Elevate Science Grade 5, Topic 2
3.4.4.A.3 Know different material characteristics (e.g., texture, state of matter, solubility).	<p>Grade K SE/TE: uInvestigate Lab: How are objects the same?, 49 Quest Check-In: How can you observe and sort objects, 54</p> <p>Grade 2 SE/TE: uDemonstrate Lab: What makes something sink or float?, 40-41</p> <p>Grade 4 SE/TE: Minerals, 180</p>
3.4.4.B	
3.4.4.B.1 Identify energy forms and examples (e.g., sunlight, heat, stored, motion).	<p>Grade 1 SE/TE: Quest Connection, 9</p> <p>Grade 4 SE/TE: uInvestigate Lab: How does starting height affect and object's energy?, 7 Energy, 8 Energy at Rest, 9 Light Energy, 29</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.4.4.B.2 Know the concept of the flow of energy by measuring flow through an object or system.	Grade 4 SE/TE: Plan It!, 59
3.4.4.B.3 Describe static electricity in terms of attraction, repulsion and sparks.	Grade 3 SE/TE: uConnect Lab: How can you move objects without touching them?, 54 Moving Charges, 62
3.4.4.B.4 Apply knowledge of the basic electrical circuits to design and construction simple direct current circuits.	Grade 4 SE/TE: uInvestigate Lab: How does Electric Energy Flow in Circuits?, 25
3.4.4.B.5 Classify materials as conductors and nonconductors.	Grade 3 SE/TE: Visual Literacy Connection: How Do Electric Charges Move?, 60-61 Grade 4 SE/TE: Moving Electric Charges, 37
3.4.4.B.6 Know and demonstrate the basic properties of heat by producing it in a variety of ways.	Grade 4 SE/TE: uInvestigate Lab: How does heat move?, 25 Visual Literacy Connection: How is energy transferred? , 26-27
3.4.4.B.7 Know the characteristics of light (e.g., reflection, refraction, absorption) and use them to produce heat, color or a virtual image.	Grade 1 SE/TE: uInvestigate Lab: How can you use light to see?, 59 Grade 4 SE/TE: uInvestigate Lab: How is light reflected?, 125 Properties of Light Waves, 126 STEM Quest Check-in Lab: How can you send a message with a light?, 132-133
3.4.4.C Observe and describe different types of force and motion.	
3.4.4.C.1 Identify characteristics of sound (pitch, loudness and echoes)	Grade 1 SE/TE: Literacy Connection: Draw Conclusions, 5 Pitch and Volume, 9 Quest Connection, 9 Making Sounds, 14 Literacy Toolbox: Draw Conclusions, 15 Musical Sounds, 15

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
Continued	<p>Grade 4 SE/TE: Sound Energy, 30 Topic Assessment, 44-45 Quest Connection, 118 STEM Quest Check-in Lab: How can you send a message with sound?, 123</p>
3.4.4.C.2 Recognize forces that attract or repel other objects and demonstrate them.	<p>Grade 3 SE/TE: Moving Charges, 62</p>
3.4.4.C.3 Describe various types of motions.	<p>Grade K SE/TE: uInvestigate Lab: How can we make objects move? , 7 Pushes and Pulls, 8-9 Quest Connection, 9 Ways Objects Move, 10 uInvestigate Lab, 13 Different Ways to Move, 14 Different Speeds, 15 Objects Change Motion, 22 Direction and Motion, 24-25 uDemonstrate Lab, 34-35</p> <p>Grade 3 SE/TE: uInvestigate Lab: How fast can it move?, 7 Position and Motion, 8 Model It!, 9 Relative Motion, 9 Visual Literacy Connection: Which road is faster?, 10-11 uInvestigate Lab: How can you describe the motion of an object?, 17 Motion Without a Pattern, 22</p> <p>Grade 4 SE/TE: Energy in Motion, 7 Motion and Energy, 12</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.4.4.C.4 Compare the relative movement of objects and describe types of motion that are evident.	<p>Grade K SE/TE: Direction and Motion, 25 Quest Findings , 28 uDemonstrate Lab, 34-35</p> <p>Grade 3 SE/TE: uInvestigate Lab: How fast can it move?, 7 Position and Motion, 8 Model It!, 9 Relative Motion, 9 uInvestigate Lab: How can you describe the motion of an object?, 17</p>
3.4.4.C.5 Describe the position of an object by locating it relative to another object or the background (e.g., geographic direction, left, up).	<p>Grade 3 SE/TE: Position and Motion, 8</p>
3.4.4.D Describe the composition and structure of the universe and the Earth's place in it.	
3.4.4.D.1 Recognize earth's place in the solar system.	This standard is not addressed until Elevate Science Grade 5, Topic 6
3.4.4.D.2 Explain and illustrate the causes of seasonal changes.	<p>Grade 1 SE/TE: uInvestigate Lab: How does the sun cause seasons?, 95 Quest Check-In Lab: How does the season affect the amount of daylight?, 132-133</p> <p>Grade 3 SE/TE: Weather and Seasons, 102</p>
3.4.4.D.3 Identify planets in our solar system and their general characteristics.	See Grade 5, Topic 6.
3.4.4.D.4 Describe the solar system motions and use them to explain time (e.g., days, seasons), major lunar phases and eclipses.	See Grade 5, Topic 7.

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.5.4 Earth Sciences	
3.5.4.A Know basic landforms and earth history.	
3.5.4.A.1 Describe earth processes (e.g., rusting, weathering, erosion) that have affected selected physical features in students' neighborhoods.	<p>Grade 2 SE/TE: Crosscutting Concepts Toolbox: Stability and Change, 127 Quest Findings!: Save the Town, 140</p> <p>Grade 4 SE/TE: Deposition, 190 Changes in Landforms over Time, 191 STEM Quest Check-In Lab: How does water affect landforms?, 192 Quest Findings: Does X Mark the Spot? That's Up to You!, 194 Topic Assessment, 196-197 Evidence-Based Assessment, 198-199</p>
3.5.4.A.2 Identify various earth structures (e.g., mountains, faults, drainage basins) through the use of models.	<p>Grade 2 SE/TE: uConnect Lab: What covers most of the surface of Earth?, 80 uInvestigate Lab: How can you make a map of a special place?, 83 The Surface of Earth, 84 Quest Findings: Map Your Hike!, 104</p> <p>Grade 4 SE/TE: uInvestigate Lab: Where are major landforms?, 167 Patterns of Mountains, 168 Quest Check-In: A Changing Landscape, 173 Quest Findings: Does X Mark the Spot? That's Up to You!, 194 Earthquakes, 210 uBe a Scientist: Earthquake Evidence, 210 Quest Kickoff: Does X Mark the Spot? That's Up to You!, 152-153 STEM Quest Check-In Lab: How can you make a model of a landform?, 182-183</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>3.5.4.A.3 Identify the composition of soil as weathered rock and decomposed organic remains.</p>	<p>Grade 2 SE/TE: Hills and Plains, 85</p> <p>Grade 4 SE/TE: Soil, 181</p>
<p>3.5.4.A.4 Describe fossils and the type of environment they lived in (e.g., tropical, aquatic, desert).</p>	<p>Grade 3 SE/TE: uConnect Lab: What can a fossil tell you?, 256 uInvestigate Lab: How do minerals help form fossils?, 259 Kinds of Fossils, 260 Fossil Evidence, 261 Fossils in Sap and Ice, 264 Quest Check-In: Plant, Animal, or Trace?, 266 Quest Check-In: Long Ago and Today, 275 Quest Check-In Lab: Where did those fossils come from?, 284-285 uDemonstrate Lab: What were this organism and its environment like?, 292-293</p> <p>Grade 4 SE/TE: STEM Connection, 248 Fossils, 250 Quest Connection, 250 Quest Check-In: Existing Evidence, 254 Fossil Clues on Earth, 260</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.5.4.B Know types and uses of earth materials.	
3.5.4.B.1 Identify uses of various earth materials (e.g., buildings, highways, fuels, growing plants).	<p>Grade 2 SE/TE: uConnect Lab: How can you use all of the materials?, 46 Quest Check-In: How does temperature change matter over time?, 59 STEM Quest Check-In Lab: What materials make a bridge strong?, 64 Quest Findings: Building Bridges, 68 uDemonstrate Lab: How can you make something new?, 74-75</p> <p>Grade 3 SE/TE: Quest Kickoff: Hold on to Your Roof!, 86-87 Quest Check-In: A Roof for all seasons, 108 Plan It!, 113 Quest Check-In Lab: How can a roof be improved?, 116-117 Quest Findings: Hold on to your roof!, 118</p> <p>Grade 4 SE/TE: uConnect Lab: How are energy resources used?, 54 Using Energy, 58 Visual Literacy Connection: Is renewable energy all around?, 76-77</p>
3.5.4.B.2 Identify and sort earth materials according to a classification key (e.g., soil/rock type).	<p>Grade 4 SE/TE: uInvestigate Lab: How can you classify minerals?, 175 Sedimentary Rocks, 176 Minerals, 180 Lesson 3 Check, 181</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.5.4.C Know basic weather elements.	
3.5.4.C.1 identify cloud types.	
3.5.4.C.2 Identify weather patterns from data charts (including temperature, wind direction and speed, precipitation) and graphs of the data.	<p>Grade K SE/TE: uConnect Lab: How does the weather change during the day?, 106 uInvestigate Lab: How can you collect rain?, 117 uInvestigate Lab: What is the weather like in different seasons?, 123 uDemonstrate Lab: What is the weather like?, 142-143</p> <p>Grade 1 SE/TE: uDemonstrate Lab: How does weather change in a week?, 140-141</p> <p>Grade 3 SE/TE: uDemonstrate Lab: What can barometric pressure tell you?, 124-125 Quest Check-In: Moody Weather, 140 STEM Math Connection: Draw and Analyze Graphs, 141 Quest Findings: Climates on Location, 160 uDemonstrate Lab: What affects the climate in a region?, 166-167</p> <p>Grade 4 SE/TE: uInvestigate Lab: When is the air dry? , 101 Weather Graphs, 103</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.5.4.C.3 Explain how the different seasons effect plants, animals, food availability and daily human life.	<p>Grade K SE/TE: Different Seasons, 124-125 Quest Check-In: Seasonal Changes, 126</p> <p>Grade 1 SE/TE: Daily Weather Changes, 128 Quest Connection, 128 Quest Findings: Plan a Trip!, 134</p> <p>Grade 3 SE/TE: Quest Check-In Lab: Which animals can live here?, 183 Visual Literacy Connection: How do animals respond to seasonal changes?, 236-237</p>
3.5.4.D Recognize the earth's different water resources.	
3.5.4.D.1 Know that approximately three-fourths of the earth is covered by water.	<p>Grade 2 SE/TE: uConnect Lab: What covers most of the surface of Earth?, 80</p> <p>Grade 3 SE/TE: The Ocean and Climate, 137</p>
3.5.4.D.2 identify and describe types of fresh and salt-water bodies.	<p>Grade 2 SE/TE: Rivers and Streams, 92 The Ocean, 92 Lakes and Ponds, 94</p>
3.5.4.D.3 Identify examples of water in the form of solid, liquid and gas on or near the surface of the earth.	<p>Grade 2 SE/TE: uConnect Lab: What covers most of the surface of Earth?, 80 Glaciers, 93</p>
3.5.4.D.4 Explain and illustrate evaporation and condensation.	<p>Grade 3 SE/TE: uBe a Scientist: Evaporation, 137</p>
3.5.4.D.5 Recognize other resources available from water (e.g., energy, transportation, minerals, food).	<p>Grade 4 SE/TE: Literacy Connection: Use Text Features, Energy of the Future, 55</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.6.4 Technology Education	
3.6.4.A Know that biotechnologies relate to propagating, growing, maintaining, adapting, treating and converting.	
3.6.4.A.1 Identify agricultural and industrial production processes that involve plants and animals.	Grade 3 SE/TE: uEngineer It!: A Fruitful Change, 192-193
3.6.4.A.2 Identify waste management treatment processes.	
3.6.4.A.3 Describe how knowledge of the human body influences or impacts ergonomic design.	Grade 2 SE/TE: uEngineer It!: Plan a Habitat on Mars, 202-203
3.6.4.A.4 Describe how biotechnology has impacted various aspects of daily life (e.g., health care, agriculture, waste treatment).	Grade 3 SE/TE: uEngineer It!: A Fruitful Change, 192-193 Grade 4 SE/TE: Engineering Connection, 358 Quest Connection, 370
3.6.4.B Know that information technologies involve encoding, transmitting, receiving, storing, retrieving and decoding.	
3.6.4.B.1 Identify electronic communication methods that exist in the community (e.g., digital cameras, telephone, internet, television, fiber optics).	Grade K SE/TE: Communication, EM9 Grade 1 SE/TE: Using Sounds, 22-23 uEngineer It!: Alert! Alert!, 26-27 Communication, EM9 Grade 2 SE/TE: Communication, EM9 Grade 3 SE/TE: Digital Tools, EM3 Grade 4 SE/TE: uEngineer It!: Hold That Phone, 82-83 How Do Cell Phone Calls Work?, 137 Digital Tools, EM3

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.6.4.B.2 Identify graphic reproduction methods.	
3.6.4.B.3 Describe appropriate image generating techniques (e.g., photography, video).	<p>Grade 2 SE/TE: Career Connection: Conservation Ecologist, 219</p> <p>Grade 3 SE/TE: Digital Tools, EM3</p> <p>Grade 4 SE/TE: Career Connection: Nature Photographer, 327 Digital Tools, EM3 Constructing Explanations, EM6</p>
3.6.4.B.4 Demonstrate the ability to communicate an idea by applying basic sketching and drawing techniques.	<p>Grade K SE/TE: Communication, EM9</p> <p>Grade 2 SE/TE: Career Connection: Conservation Ecologist, 219</p> <p>Grade 3 SE/TE: Digital Tools, EM3</p> <p>Grade 4 SE/TE: Career Connection: Nature Photographer, 327 Digital Tools, EM3 Constructing Explanations, EM6</p>
3.6.4.C Know physical technologies of structural design, analysis and engineering, finance, production, marketing, research and design.	
3.6.4.C.1 Identify and group a variety of construction tasks.	This standard is not addressed in Elevate Science K-4.
3.6.4.C.2 Identify the major construction systems present in a specific local building.	This standard is not addressed in Elevate Science K-4.
3.6.4.C.3 Identify specific construction systems that depend on each other in order to complete a project.	This standard is not addressed in Elevate Science K-4.
3.6.4.C.4 Know skills used in construction.	This standard is not addressed in Elevate Science K-4.

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.6.4.C.5 Identify examples of manufactured goods present in the home and school.	Grade 2 SE/TE: Quest Check-In: How does temperature change matter over time?, 59
3.6.4.C.6 Identify basic resources needed to produce a manufactured item.	Grade 4 SE/TE: Connecting Concepts Toolbox: Energy and Matter, 78
3.6.4.C.7 Identify basic component operations in a specific manufacturing enterprise (e.g., cutting, shaping, attaching).	This standard is not addressed in Elevate Science K-4.
3.6.4.C.8 Identify waste and pollution resulting from a manufacturing enterprise.	Grade K SE/TE: Crosscutting Concepts Toolbox: Cause and Effect, 213 Grade 4 SE/TE: Connecting Concepts Toolbox: Energy and Matter, 66
3.6.4.C.9 Explain and demonstrate the concept of manufacturing (e.g., assemble a set of papers or ball point pens sequentially, mass produce an object).	This standard is not addressed in Elevate Science K-4.
3.6.4.C.10 Identify transportation technologies of propelling, structuring, suspending, guiding, controlling and supporting.	This standard is not addressed in Elevate Science K-4.
3.6.4.C.11 Identify and experiment with simple machines used in transportation systems.	This standard is not addressed in Elevate Science K-4.
3.6.4.C.12 Explain how improved transportation systems have changed society.	This standard is not addressed in Elevate Science K-4.

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.7.4 Technological Devices	
3.7.4.A Explore the use of basic tools, simple materials and techniques to safely solve problems.	
3.7.4.A.1 Describe the scientific principles on which various tools are based.	<p>Grade K SE/TE: Tools, EM4 Measure, EM5</p> <p>Grade 1 SE/TE: Tools, EM2-EM3 How to Measure, EM5</p> <p>Grade 2 SE/TE: Tools, EM2-EM3 How to Measure, EM5</p> <p>Grade 3 SE/TE: Science Tools, EM2</p> <p>Grade 4 SE/TE: Model It!, 20 Investigate Lab: How can you test the strength of a bone?, 351 Investigate Lab: Which parts of the body are more sensitive?, 359 Constructing Explanations, EM6</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.7.4.A.2 Group tools and machines by their function.	
3.7.4.A.3 Select and safely apply appropriate tools and materials to solve simple problems.	<p>Grade K SE/TE: uEngineer It!: Maze Craze!, 18-19 uEngineer It!: Up and Away!, 62-63 uEngineer It!: Sunny Days, 84-85 uEngineer It!: Don't Blow Away!, 114-115 uEngineer It!: The Problem with a Tree, 218-219 Improve the Design, EM11</p> <p>Grade 1 SE/TE: uEngineer It!: Alert! Alert!, 26-27 Questions, EM0</p> <p>Grade 2 SE/TE: uEngineer It!: Improve a Sipping Cup, 66-67 uConnect Lab: Which solution is better?, 116 uEngineer It!: Stop Wind Erosion, 138-139 uEngineer It!: Plan a Habitat on Mars, 202-203</p> <p>Grade 3 SE/TE: Quest Check-In Lab: How can magnets sort objects by weight?, 72-73 uEngineer It!: Moving Along, 74-75</p>
3.7.4.B Select appropriate instruments to study materials.	
3.7.4.B.1 Develop simple skills to measure, record, cut and fasten.	This standard is not addressed in Elevate Science K-4.
3.7.4.B.2 Explain appropriate instrument selection for specific tasks.	<p>Grade 1 SE/TE: Math Toolbox: Use Tools, 46</p> <p>Grade 3 SE/TE: Science Tools, EM2</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.7.4.C Identify basic computer operations and concepts.	
3.7.4.C.1 Identify the major parts necessary for a computer to input and output data.	This standard is not addressed in Elevate Science K-4.
3.7.4.C.2 Explain and demonstrate the basic use of input and output devices (e.g., keyboard, monitor, printer, mouse).	This standard is not addressed in Elevate Science K-4.
3.7.4.C.3 Explain and demonstrate the use of external and internal storage devices (e.g., disk drive, CD drive).	This standard is not addressed in Elevate Science K-4.
3.7.4.D Use basic computer software.	
3.7.4.D.1 Apply operating system skills to perform basic computer tasks.	This standard is not addressed in Elevate Science K-4.
3.7.4.D.2 Apply basic word processing skills.	This standard is not addressed in Elevate Science K-4.
3.7.4.D.3 Identify and use simple graphic and presentation graphic materials generated by the computer.	This standard is not addressed in Elevate Science K-4.
3.7.4.D.4 Apply specific instructional software.	This standard is not addressed in Elevate Science K-4.
3.7.4.E Identify basic computer communications systems.	
3.7.4.E.1 Apply a web browser.	This standard is not addressed in Elevate Science K-4.
3.7.4.E.2 Apply basic electronic mail functions.	This standard is not addressed in Elevate Science K-4.
3.7.4.E.3 Use on-line searches to answer age appropriate questions.	This standard is not addressed in Elevate Science K-4.

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.8.4 Science, Technology and Human Endeavors	
3.8.4.A Know that people select, create and use science and technology and that they are limited by social and physical restraints.	
3.8.4.A.1 Identify and describe positive and negative impacts that influence or result from new tools and techniques.	<p>Grade K SE/TE: uEngineer It!: Up and Away!, 62-63 uEngineer It!: Don't Blow Away!, 114-115 uEngineer It!: The Problem with a Tree, 218-219 Improve the Design, EM11</p> <p>Grade 2 SE/TE: uEngineer It!: Improve a Sipping Cup, 66-67 uConnect Lab: Which solution is better?, 116 uEngineer It!: Stop Wind Erosion, 138-139 uEngineer It!: Plan a Habitat on Mars, 202-203</p> <p>Grade 3 SE/TE: Quest Check-In Lab: How can magnets sort objects by weight?, 72-73 uEngineer It!: Moving Along, 74-75</p>
3.8.4.A.2 Identify how physical technology (e.g., construction, manufacturing, transportation), informational technology and biotechnology are used to meet human needs.	Grade 3 SE/TE: uEngineer It!: A Fruitful Change, 192-193
3.8.4.A.3 Describe how scientific discoveries and technological advancements are related.	<p>Grade 3 SE/TE: Optimizing Solutions, EM13</p> <p>Grade 4 SE/TE: STEM Connection, 300</p>
3.8.4.A.4 Identify interrelationships among technology, people and their world.	This standard is not addressed in Elevate Science K-4.
3.8.4.A.5 Apply the technological design process to solve a simple problem.	<p>Grade K SE/TE: uEngineer It!: Maze Craze!, 18-19 uEngineer It!: Don't Blow Away!, 114-115 uEngineer It!: The Problem with a Tree, 218-219 Improve the Design, EM11</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
Continued	<p>Grade 1 SE/TE: Quest Check-In Lab: How can an instrument send a secret?, 25 uDemonstrate Lab: Which instrument can you use to make sound?, 34-35 uInvestigate Lab: Which way is the wind blowing?, 117</p> <p>Grade 2 SE/TE: uInvestigate Lab: How can you change objects?, 49 uEngineer It!: Improve a Sipping Cup, 66-67 uConnect Lab: Which solution is better?, 116 uEngineer It!: Stop Wind Erosion, 138-139 uEngineer It!: Plan a Habitat on Mars, 202-203</p> <p>Grade 3 SE/TE: Quest Check-In Lab: How can magnets sort objects by weight?, 72-73 uEngineer It!: Moving Along, 74-75</p> <p>Grade 4 SE/TE: Engineering Practice Toolbox: Spares and Strikes, 20</p> <p>uEngineer It!: Crack That Code!, 114-115</p>
3.8.4.B Know how human ingenuity and technological resources satisfy specific human needs and improve the quality of life.	
3.8.4.B.1 Identify and distinguish between human needs and improving the quality of life.	<p>Grade K SE/TE: Quest Connection, 167</p>
3.8.4.B.2 Identify and distinguish between natural and human-made resources.	<p>Grade K SE/TE: People and Resources, 206</p> <p>Grade 2 SE/TE: Properties of Matter, 1</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

<p style="text-align: center;">Pennsylvania Assessment Anchors for Science, Grades K-4</p>	<p style="text-align: center;">Elevate Science Grades K-4, ©2019</p>
<p>3.8.4.B.4 Describe a technological invention and the resources that were used to develop it.</p>	<p>Supporting Content: Grade K TE Only: 21st Century Skills, EM9</p> <p>Grade 1 TE Only 21st Century Skills, EM4</p> <p>Grade 2 TE: 21st Century Skills, 33</p> <p>Grade 3 SE/TE: Optimizing Solutions, EM13 TE Only: 21st Century Skills, 19, 69, 145</p> <p>Grade 4 SE/TE: Developing and Using Models, EM6 Using Models and Prototypes, EM12 TE Only: 21st Century Skills, 13, 137</p>
<p>3.8.4.C Know the pros and cons of possible solutions to scientific and technological problems in society.</p>	
<p>3.8.4.C.1 Compare the positive and negative expected and unexpected impacts of technological change.</p>	<p>Grade 2 SE/TE: Jumpstart Discovery!, 130 Changes to Land, 132 Changes to Water, 133 Quest Findings!: Save the Town, 140 Evidence Based-Assessment, 144-145</p> <p>Grade 4 SE/TE: uConnect Lab: How are energy resources used?, 54</p>

**A Correlation of Elevate Science ©2019, Grades K-4
to the
Pennsylvania Assessment Anchors for Science, Grades K-4**

Pennsylvania Assessment Anchors for Science, Grades K-4	Elevate Science Grades K-4, ©2019
3.8.4.C.2 Identify and discuss examples of technological change in the community that have both positive and negative impacts.	<p>Grade 2 SE/TE: Changes to Land, 132 Changes to Water, 133</p> <p>Grade 4 SE/TE: uConnect Lab: How are energy resources used?, 54 Design It!, 70 uEngineer It!: Hold That Phone, 82-83 Quest Findings: Power from the People, 92</p>