

A Correlation of
Elevate Science
Grade 4, ©2019



To the
Virginia Standards of Learning for Science 2018
Grade 4

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Publisher: Savvas Learning Company, LLC

Text: Elevate Science, Grade 4

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2018 Grade Four Science Standards of Learning	
STANDARD	Correlation: Must address both the standards and the curriculum framework. Use page number and ATE for Annotated Teacher Edition or CT for Core Technology. (Identify no more than 8 correlations.)
4.2 The student will investigate and understand that plants and animals have structures that distinguish them from one another and play vital roles in their ability to survive. Key ideas include	
a) the survival of plants and animals depends on photosynthesis;	<p>ATE Visual Literacy Connection: What are some functions of internal leaf structures?, 286-287 Internal Structures and Functions of Plants, 288</p> <p>CT: Realize™ Digital Resources: Structures and Functions >Lesson 1, Internal Structures and Functions of Plants>Video: Internal Structures and Functions of Plants;>Quiz: Internal Structures and Functions of Plants >Lesson 3, Internal Structures and Functions of Animals>Interactivity: Eating Food and Making Food</p>

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<p>b) plants and animals have different structures and processes for obtaining energy; and</p>	<p>ATE Visual Literacy Connection: What are some functions of internal leaf structures?, 286-287 Internal Structures and Functions of Plants, 288 Investigate Lab: How can you compare the stomachs of cows and dogs?, 301 Quest Check-In: Lobster Claws, 314 Animal Responses to Smell, 320</p> <p>CT: Realize™ Digital Resources: Structures and Functions >Lesson 1, Internal Structures and Functions of Plants>Video: Internal Structures and Functions of Plants >Lesson 3, Internal Structures and Functions of Animals>Interactivity: Eating Food and Making Food >Lesson 4, External Structures and Functions of Animals>Interactivity: External Structures of Plants and Animals</p>
<p>c) plants and animals have different structures and processes for creating offspring.</p>	<p>ATE: Investigate Lab: What parts are inside a flower?, 283 Internal Structures and Functions of Plants, 285 Visual Literacy Connection: Which structures do flowering plants use to reproduce?, 296-297 Adaptations of Flowers, 298 Animal Characteristics, 313</p> <p>CT: Realize™ Digital Resources: Structures and Functions >Lesson 1, Internal Structures and Functions of Plants>Video: External Structures and Functions of Plants;>Interactivity: The Structure of Flowers >Lesson 4, External Structures and Functions of Animals>Interactivity: External Structures of Plants and Animals</p>

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4.3 The student will investigate and understand that organisms, including humans, interact with one another and with the nonliving components in the ecosystem. Key ideas include	
a) interrelationships exist in populations, communities, and ecosystems;	Please see <i>Elevate Science</i> , Grade 5, Topic 9: Matter and Energy in Ecosystems, Lesson 1: Ecosystems and Lesson 2: Organisms Within Ecosystems
b) food webs show the flow of energy within an ecosystem;	Please see <i>Elevate Science</i> , Grade 5, Topic 9: Matter and Energy in Ecosystems, Lesson 2: Organisms Within Ecosystems and Lesson 4: Matter and Energy Transfer Within Ecosystems
c) changes in an organism’s niche and habitat may occur at various stages in its life cycle; and	Please see <i>Elevate Science</i> , Grade 5, Topic 9: Matter and Energy in Ecosystems, Lesson 3: Change Within Ecosystems
d) classification can be used to identify organisms.	ATE <ul style="list-style-type: none"> uInvestigate Lab: How are leaf coverings different?, 293 Stems and Their Coverings, 295 Visual Literacy Connection: How do lungs and gills compare?, 304-305 Other External Structures of Animals, 312 CT: Realize™ Digital Resources: Structures and Functions >Lesson 4, External Structures and Functions of Animals>Video: External Structures and Functions of Animals

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4.4 The student will investigate and understand that weather conditions and phenomena affect ecosystems and can be predicted. Key ideas include	
a) weather measurements create a record that can be used to make weather predictions;	Supporting Content: ATE: Predict Natural Hazards, 230 Also see <i>Elevate Science</i> , Grade 3, Topic 3: Weather, Lesson 2: Seasonal Weather Changes.
b) common and extreme weather events affect ecosystems; and	ATE: Investigate Lab: How does snow sliding quickly down a mountain impact people?, 219 Visual Literacy Connection: How much rainfall is enough?, 220-221 Blizzards, Hurricanes, and Tornadoes, 222 Landslides and Avalanches, 223 Short-Term Effects of Hazards, 228 Evidence-Based Assessment, 238-239 CT: Realize™ Digital Resources: Earth' Natural Hazards >Lesson 2, Weather Hazards>Video: Weather Hazards;>Interactivity: Catastrophic Weather Events
c) long term seasonal weather trends determine the climate of a region.	Please see <i>Elevate Science</i> , Grade 3, Topic 4: Climate, Lesson 1: Climates and Lesson 3: World Climates.

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4.5 The student will investigate and understand that the planets have characteristics and a specific place in the solar system. Key ideas include	
a) planets rotate on their axes and revolve around the sun;	Please see <i>Elevate Science</i> , Grade 5, Topic 6: Solar System, Lesson 2: Inner Solar System and Lesson 3: Outer Solar System. Also see Topic 7: Patterns in Space, Lesson 2: Earth's Movements in Space.
b) planets have characteristics and a specific order in the solar system; and	Please see <i>Elevate Science</i> , Grade 5, Topic 6: Solar System, Lesson 2: Inner Solar System and Lesson 3: Outer Solar System.
c) the sizes of the sun and planets can be compared to one another.	Please see <i>Elevate Science</i> , Grade 5, Topic 6: Solar System, Lesson 2: Inner Solar System and Lesson 3: Outer Solar System.

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4.6 The student will investigate and understand that there are relationships among Earth, the moon, and the sun. Key relationships include	
a) the motions of Earth, the moon, and the sun;	Please see <i>Elevate Science</i> , Grade 5, Topic 7: Patterns in Space, Lesson 2: Earth’s Movements in Space and Lesson 3: Patterns Over Time.
b) the causes for Earth’s seasons;	Please see <i>Elevate Science</i> , Grade 5, Topic 7: Patterns in Space, Lesson 2: Earth’s Movements in Space,
c) the causes for the four major phases of the moon and the relationship to the tide cycles; and	Please see <i>Elevate Science</i> , Grade 5, Topic 4: Earth’s Water, Lesson 3: Earth’s Ocean. Also see Topic 7: Patterns in Space, Lesson 2: Earth’s Movements in Space and Lesson 3: Patterns Over Time.
d) the relative size, position, age and makeup of Earth, the moon, and the sun.	Please see <i>Elevate Science</i> , Grade 5, Topic 6: Solar System, Lesson 1: Brightness of the Sun and Other Stars, Lesson 2: Inner Solar System, and Lesson 3: Outer Solar System

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4.7 The student will investigate and understand that the ocean environment has characteristics. Key characteristics include	
a) geology of the ocean floor;	<p>ATE: Ring of Fire, 169 Visual Literacy Connection: How can a physical map help me locate different landforms?, 170-171 Patterns Under the Ocean, 172 Seafloor Patterns, 172</p> <p>CT: Realize™ Digital Resources: Earth's Features >Lesson 2, Patterns of Earth's Features>Video: Patterns of Earth's Features</p>
b) physical properties and movement of ocean water; and	Please see <i>Elevate Science</i> Grade 5, Topic 4: Earth's Water, Lesson 3: Earth's Ocean.
c) interaction of organisms in the ocean.	Please see <i>Elevate Science</i> Grade 5, Topic 9: Matter and Energy in Ecosystems, Lesson 2, Organisms Within Ecosystems.

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<p>4.8 The student will investigate and understand that Virginia has important natural resources. Key resources include</p>	
<p>a) watersheds and water;</p>	<p>ATE: Visual Literacy Connection: Is renewable energy all around?, 76-77 Hydropower, 78 Virginia Resource Map, 162</p> <p>CT: Realize™ Digital Resources: Human Uses of Energy Lesson 3, Renewable Energy Sources>Video: Renewable Energy Sources;>Interactivity: Natural Resources</p>
<p>b) plants and animals;</p>	<p>Supporting Content: ATE: Visual Literacy Connection: Is renewable energy all around?, 76-77 Renewable Fuel, 78 Resource Maps, 162 Virginia Resource Map, 162</p> <p>CT: Realize™ Digital Resources: Human Uses of Energy Lesson 3, Renewable Energy Sources>Interactivity: Natural Resources</p>

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<p>c) minerals, rocks, and ores; and</p>	<p>Supporting Content: ATE: Nuclear Fuel, 71 Resource Maps, 162 Engineering Connection, 174 Minerals, 180</p> <p>Also see <i>Elevate Science</i>, Grade 5, Topic 5: Human Impacts on Earth's Systems, Lesson 1: Earth's Natural Resources.</p>
<p>d) forests, soil, and land.</p>	<p>Supporting Content: ATE: Visual Literacy Connection: Is renewable energy all around?, 76-77 Renewable Fuel, 78 Resource Maps, 162 Virginia Resource Map, 162 Soil, 181</p> <p>CT: Realize™ Digital Resources: Human Uses of Energy Lesson 3, Renewable Energy Sources>Interactivity: Natural Resources</p> <p>Also see <i>Elevate Science</i>, Grade 5, Topic 5: Human Impacts on Earth's Systems, Lesson 1: Earth's Natural Resources.</p>

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