

A Correlation of
Elevate Science
Grade 5, ©2019



To the
Virginia Standards of Learning for Science 2018
Grade 5

**A Correlation of Elevate Science, Kindergarten ©2019
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Publisher: Savvas Learning Company, LLC

Text: Elevate Science, Grade 5

Copyright date: 2019

2018 Grade Five 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.)
5.2 The student will investigate and understand that energy can take many forms. Key ideas include	
a) energy is the ability to do work or to cause change;	Supporting Content: ATE: Energy from Fuels, 198 Energy from Nonfuel Sources, 199 Energy and Body Heat, 340 Energy and Metabolism, 341 Energy and Movement, 342
b) there are many different forms of energy;	ATE: Energy and the Water Cycle, 150 Human Uses of Energy, 198 Visual Literacy Connection: Where is electrical energy generated?, 200-201 Curriculum Connection, 320 Plants and Energy, 322 Animals and Energy, 323 Energy Flow in Ecosystems, 389 CT: Realize™ Digital Resources: Energy and Food >Lesson 1, Energy in Food>Video: Energy in Food

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<p>c) energy can be transformed; and</p>	<p>Supporting Content: ATE: uConnect Lab: How much food do you need?, 318 uInvestigate Lab: How is the Sun involved in your meals?, 321 Quest Check-In Lab: What plant food provide the most energy?, 334-335 uInvestigate Lab: How do animals get energy from the Sun?, 339</p> <p>Please see Elevate Science Grade 4, Topic 1: Energy and Motion, Lesson 3: Energy Transfer</p>
<p>d) energy is conserved.</p>	<p>Related Content: ATE: Conservation of Matter, 68</p> <p>Please see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 1: Energy, Speed, and Moving Objects and Lesson 2: Collisions</p>

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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.)
5.3 The student will investigate and understand that there is a relationship between force and energy of moving objects. Key ideas include	
a) moving objects have kinetic energy;	Please see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 1: Energy, Speed, and Moving Objects; Lesson 2: Collisions; and Lesson 3: Energy Transfer.
b) motion is described by an object’s direction and speed;	Please see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 1: Energy, Speed, and Moving Objects.
c) changes in motion are related to net force and mass;	Please see <i>Elevate Science Grade 4</i> , Topic 1: Energy and Motion, Lesson 1: Energy, Speed, and Moving Objects Also see <i>Elevate Science</i> Grade 3, Topic 1: Motion and Forces, Lesson 4: Balanced and Unbalanced Forces.
d) when objects collide, the contact forces transfer energy and can change objects’ motion; and	Please see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 2: Collisions.
e) friction is a force that opposes motion.	Please see <i>Elevate Science</i> Grade 3, Topic 1: Motion and Forces, Lesson 3: Forces and Motion.

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5.4 The student will investigate and understand that electricity is transmitted and used in daily life. Key ideas include	
a) electricity flows easily through conductors but not insulators;	ATE: Conductors of Heat and Electricity, 12 Please also see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 4: Electric Circuits
b) electricity flows through closed circuits;	Please see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 4: Electric Circuits
c) static electricity can be generated by rubbing certain materials together;	Please see <i>Elevate Science</i> Grade 3, Topic 2: Electricity and Magnetism, Lesson 1: Electric Forces Also see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 4: Electric Circuits.

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<p>d) electrical energy can be transformed into radiant, mechanical, and thermal energy; and</p>	<p>Supporting Content: ATE: Conductors of Heat and Electricity, 12 Please see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 4: Electric Circuits.</p>
<p>e) a current flowing through a wire creates a magnetic field.</p>	<p>Please see <i>Elevate Science</i> Grade 3, Topic 2: Electricity and Magnetism, Lesson 2: Magnetic Forces</p>

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5.5 The student will investigate and understand that sound can be produced and transmitted. Key ideas include	
a) sound is produced when an object or substance vibrates;	Please see <i>Elevate Science</i> Grade 4, Topic 3: Waves and Information, Lesson 1: Properties of Waves.
b) sound is the transfer of energy;	For supporting content, see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 3: Energy Transfer.
c) different media transmit sound differently; and	Please see <i>Elevate Science</i> Grade 4, Topic 3: Waves and Information, Lesson 1: Properties of Waves and Lesson 2: Patterns of Waves.
d) sound waves have many uses and applications.	Please see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 3: Energy Transfer. Also see 3: Waves and Information, Lesson 1: Properties of Waves.

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5.6 The student will investigate and understand that visible light has certain characteristics and behaves in predictable ways. Key ideas include	
a) visible light is radiant energy that moves in transverse waves;	Please see <i>Elevate Science</i> Grade 4, Topic 3: Waves and Information, Lesson 1: Properties of Waves.
b) the visible spectrum includes light with different wavelengths;	Please see <i>Elevate Science</i> Grade 4, Topic 3: Waves and Information, Lesson 1: Properties of Waves and Lesson 3: Waves and the Electromagnetic Spectrum.
c) matter influences the path of light; and	Please see <i>Elevate Science</i> Grade 4, Topic 3: Waves and Information, Lesson 3: Waves and the Electromagnetic Spectrum.
d) radiant energy can be transformed into thermal, mechanical, and electrical energy.	Please see <i>Elevate Science</i> Grade 4, Topic 1: Energy and Motion, Lesson 3: Energy Transfer.

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5.7 The student will investigate and understand that matter has properties and interactions. Key ideas include	
a) matter is composed of atoms;	<p>ATE: Atoms, 18 Molecules 19 Visual Literacy Connection: What is the matter?, 20-21 Same Atoms, Different Matter, 22</p> <p>CT: Realize™ Digital Resources: Properties of Matter >Lesson 2, Model Matter>Video: Model Matter</p>
b) substances can be mixed together without changes in their physical properties; and	<p>ATE: Investigate Lab: How can you separate a mixture?, 79 Mixtures, 80 Engineering Practice Toolbox, 81 Visual Literacy Connection: When is a mixture also a solution?, 82-83 Mixtures and Solutions, 85</p> <p>CT: Realize™ Digital Resources: Changes in Matter >Lesson 4, Mixtures and; Solutions>Video: Mixtures and Solutions;>Interactivity: Mixtures and Solutions</p>

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c) energy has an effect on the phases of matter.

ATE:

States of Matter, 28

Temperature, 29

Investigate Lab: Which properties are affected by temperature?, 57

Changes in Temperature, 59

A Change of Physical State, 60

Particle Changes, 61

CT:

Realize™ Digital Resources:

Changes in Matter

>Lesson 2, Physical Changes>Interactivity: Changing States

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5.8 The student will investigate and understand that Earth constantly changes. Key ideas include	
a) Earth's internal energy causes movement of material within the Earth;	ATE: Visual Literacy Connection: What are parts of Earth's geosphere and biosphere?, 106-107 Lithosphere, 108 Also see <i>Elevate Science</i> Grade 4, Topic 4: Earth's Features, Lesson 2: Patterns of Earth's Features. See also Topic 5: Earth's Natural Hazards, Lesson 1: Tectonic Hazards.
b) plate tectonics describe movement of the crust;	Please see <i>Elevate Science</i> Grade 4, Topic 4: Earth's Features, Lesson 2: Patterns of Earth's Features. See also Topic 5: Earth's Natural Hazards, Lesson 1: Tectonic Hazards.
c) the rock cycle models the transformation of rocks;	Please see <i>Elevate Science</i> Grade 4, Topic 4: Earth's Features, Lesson 3: Rocks, Minerals, and Soil.
d) processes such as weathering, erosion, and deposition change the surface of the Earth; and	ATE: Geosphere and Atmosphere, 123 Also see <i>Elevate Science</i> Grade 4, Topic 4: Earth's Features, Lesson 4: Weathering and Erosion.
e) fossils and geologic patterns provide evidence of Earth's change.	Please see <i>Elevate Science</i> Grade 4, Topic 6: The History of Planet Earth, Lesson 1: Patterns in Fossils and Rock Formations and Lesson 2: Evidence of Change from Fossils and Rock Formations.

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5.9 The student will investigate and understand that the conservation of energy resources is important. Key ideas include	
a) some sources of energy are considered renewable and others are not;	<p>ATE: Natural Resources, 188 Minerals and Rocks, 190 Water Resources, 191 Engineering Connection, 196 Energy from Fuels, 198 Energy from Nonfuel Sources, 199</p> <p>CT: Realize™ Digital Resources: Human Impacts on Earth's Systems >Lesson 2, Earth's Energy Resources>Video: Earth's Energy Resources;>Interactivity: How We Use Earth's Resources</p>

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<p>b) individuals and communities have means of conserving both energy and matter; and</p>	<p>ATE: Quest Kickoff: Take Care of Earth—It’s Our Home!, 182-183 Reduce Human Impacts, 209 Resource Protection, 214 Environmental Conservation, 215 Visual Literacy Connection: How do people recycle?, 216-217 Reduce and Reuse, 218</p> <p>CT: Realize™ Digital Resources: Human Impacts on Earth’s Systems >Lesson 4, Protection of Earth’s Resources and Environments>Video: Protection of Earth’s Resources and Environments;>Interactivity: Go Green</p>
<p>c) advances in technology improve the ability to transfer and transform energy.</p>	<p>ATE: Literacy Connection: Using Energy Resources, 185 uEngineer It! Make Energy the Solar Way, 194-195 Human Uses of Energy, 198 Visual Literacy Connection: Where is electrical energy generated?, 200-201 STEM Quest Check-In Lab: How do building materials affect energy efficiency?, 210-211 Resource Use, 219</p> <p>CT: Realize™ Digital Resources: Human Impacts on Earth’s Systems >Lesson 2, Earth’s Energy Resources>Video: Earth’s Energy Resources >Lesson 4, Protection of Earth’s Resources and Environments>Video: Protection of Earth’s Resources and Environments</p>

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