

A Correlation of
Elevate Science
Grade 3, ©2019



To the
Missouri
Learning Standards for Science 2018
Grade 3

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Introduction

The following document demonstrates how the ***Elevate Science***, ©2019 program supports the Missouri Learning Standards for Science, Grade 3. 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.

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PS1 Matter and Its Interactions		
PS1.A	Structure and Properties of Matter	
PS1.A.1	Predict and investigate that water can change from a liquid to a solid (freeze), and back again (melt), or from a liquid to a gas (evaporation), and back again (condensation) as the result of temperature changes.	SE/TE: uBe a Scientist: Transforming Water, 93 This standard is addressed in Elevate Science, Grade 2: Heating and Cooling, 57 uInvestigate Lab How does ;heating and cooling change matter?, 55 (though not water)
PS1.B	Types of Interactions of Matter	
PS1.B.1	Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot.	SE/TE: This standard is addressed in Elevate Science, Grade 2: Reversible or Not, 58
PS2	Motion and Stability: Forces and Interactions	
PS2.B Types of Interaction		
PS2.B.1	Plan and conduct investigations to determine the cause and effect relationship of electric or magnetic interactions between two objects not in contact with each other.	SE/TE: Visual Literacy Connection: What are noncontact forces?, 28-29 uConnect Lab: How can you move objects without touching them?, 54 uInvestigate Lab: How can you keep objects in the air?, 57 Attract or Repel, 59 Model It!, 59 Quest Connection, 62 uInvestigate Lab: How can you make a magnet?, 67 Quest Check-In Lab: How can magnets sort objects by weight?, 72-73 Topic Assessment, 78-79 uDemonstrate Lab: How can you use a force?, 82-83 Realize™ Digital Resources: Electricity and Magnetism >Lesson 1, Electric Forces>Video: Electric Forces;>Interactivity: What’s the Charge?;>Quiz: Electric Forces >Lesson 2, Magnetic Forces>Video: Magnetic Forces;>Virtual Lab: Make It Move!;>Interactivity: Magnetism;>uEngineer It! Interactivity: Magnetic Machines;>Quiz: Magnetic Forces

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LS1 From Molecules to Organisms: Structure and Processes		
LS1.A	Structure and Function	
LS1.A.1	Construct an argument with evidence that in a particular ecosystem some organisms -- based on structural adaptations or behaviors -- can survive well, some survive less well, and some cannot survive at all.	<p>SE/TE: Engineering Connection, 216 Investigate Lab: How do sea lions stay warm in cold waters?, 217 Survival in Different Habitats, 220 Quest Connection, 220 Quest Check-In Lab: How are living things suited to their habitats?, 222-223 Topic Assessment, 246-247 Demonstrate Lab: How well will the rabbit survive?, 250-251 Climate Change and Extinction, 283 Lesson 3 Check, 283</p> <p>Realize™ Digital Resources: Adaptations and Survival Lesson 1, Survival of Individuals Video: Survival of Individuals; Interactivity: Camouflage Helps Animals; Quiz: Survival of Individuals Fossil Evidence Lesson 3, Living Things and Climate Change Video: Living Things and Climate Change</p>
LS1.B	Growth and Development of Organisms	
LS1.B.1	Develop a model to compare and contrast observations on the life cycle of different plants and animals.	<p>SE/TE: Investigate Lab: How are life cycles similar and different?, 175 Visual Literacy Connection: How are life cycles the same?, 180-181 Pattern of Life Cycles, 182</p>

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LS3 Heredity: Inheritance and Variation of Traits		
LS3.A	Inheritance of Traits	
LS3.A.1	Construct scientific arguments to support claims that some characteristics of organisms are inherited from parents and some are influenced by the environment.	<p>SE/TE: ulnvestigate Lab: How can the environment affect an organism?, 195 Visual Literacy Connection: How can environmental factors affect organisms?, 198-199 Sunlight and Plant Traits, 200</p> <p>Realize™ Digital Resources: Life Cycles and Traits >Lesson 3, Traits Influenced by the Environment>Video: Traits Influenced by the Environment;>Interactivity: The Environment Affects Characteristics</p>
LS3.B	Natural Selection	
LS3.B.1	Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving and finding mates.	<p>SE/TE: Visual Literacy How do living things adapt to survive?, 218-219 Differences Can Help Living Things, 221 Lesson 1 Check, 221</p>

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LS3.C Adaptation		
LS3.C.1	Construct an argument with evidence that in a particular ecosystem some organisms -- based on structural adaptations or behaviors -- can survive well, some survive less well, and some cannot.	<p>SE/TE: Engineering Connection, 216 Investigate Lab: How do sea lions stay warm in cold waters?, 217 Survival in Different Habitats, 220 Quest Connection, 220 Quest Check-In Lab: How are living things suited to their habitats?, 222-223 Topic Assessment, 246-247 Demonstrate Lab: How well will the rabbit survive?, 250-251 Climate Change and Extinction, 283 >Lesson 3 Check, 283</p> <p>Realize™ Digital Resources: Adaptations and Survival >Lesson 1, Survival of Individuals>Video: Survival of Individuals;>Interactivity: Camouflage Helps Animals;>Quiz: Survival of Individuals Fossil Evidence >Lesson 3, Living Things and Climate Change>Video: Living Things and Climate Change</p>
LS3.D	Biodiversity and Humans	
LS3.D.1	Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.	<p>SE/TE: Investigate Lab: How will sea levels affect tigers?, 233 Quest Check-In: A Changing Pond Environment, 241 Quest Findings: STEM Help the Pond Organisms Survive, 244 Topic Assessment, 246-247</p> <p>Realize™ Digital Resources: Adaptations and Survival >Lesson 3, Survival When Environments Change>uEngineer It! Video: Have your fun, and be considerate too!</p>

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ESS2 Earth's Systems	
ESS2.D	Weather and Climate
ESS2.D.1	<p>Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.</p> <p>SE/TE: uInvestigate Lab: When is the air dry?, 101 Weather Graphs, 103 Evidence-Based Assessment, 122-123 uDemonstrate Lab: What can barometric pressure tell you?, 124-125 STEM Math Connection: Draw and Analyze Graphs, 141</p> <p>Realize™ Digital Resources: Weather >Lesson 2, Seasonal Weather Changes>Interactivity: Weather in Different Seasons;>Quiz: Seasonal Weather Changes</p>
ESS2.D.2	<p>Obtain and combine information to describe climates in different regions of the world.</p> <p>SE/TE: uConnect Lab: How does temperature change on a mountain?, 130 uInvestigate Lab: How does the sun's radiation vary on Earth's surface?, 133 The Sun and Climate, 135 Latitude and Climate, 136 The Ocean and Climate, 137 Land Features and Climate, 138 uInvestigate Lab: How do mountains affect climate?, 153 World Climate Zones, 156 Crosscutting Concepts Toolbox: Patterns, 157 Quest Check-In: Explore the World, 159 Topic Assessment, 162-163 Evidence-Based Assessment, 164-165 uDemonstrate Lab: What affects the climate in a region, 166-167</p> <p>Realize™ Digital Resources: Climate >Lesson 1, Climates>Video: Climates;>Virtual Lab: Climbing for Climate;>Quiz: Climates >Lesson 3, World Climates>Video: World Climates;>Interactivity: Earth's Climates;>Quiz: World Climates</p>

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ESS3 Earth and Human Activity	
ESS3.B Natural Hazards	
ESS3.B.1	<p>Make a claim about the merit of an existing design solution (e.g. levies, tornado shelters, sea walls, etc.) that reduces the impacts of a weather-related hazard.</p> <p>SE/TE: Quest Kickoff: STEM Hold on to your roof!, 86-87 Quest Check-In: Rainy Weather Is Coming, 97 Quest Check-In: A Roof for all Seasons, 108 STEM ulnvestigate Lab: How can you stop a flood?, 111 STEM Quest Check-In Lab: How can a roof be improved?, 116-117 Quest Findings: STEM Hold on to your roof!, 118</p> <p>Realize™ Digital Resources: Weather >Lesson 3, Weather Hazards>Virtual Lab: Build a Weather Proof Home</p>
ETS1 Engineering Design	
ETS1.A	Defining and Delimiting Engineering Problems
ETS1.A.1	<p>Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.</p> <p>SE/TE: Quest Kickoff: STEM Hold on to your roof!, 86-87 Quest Check-In: Rainy Weather Is Coming, 97 uEngineer It! Define STEM: Wild Weather!, 98-99 Quest Check-In: A Roof for all Seasons, 108 STEM ulnvestigate Lab: How can you stop a flood?, 111 STEM Quest Check-In Lab: How can a roof be improved?, 116-117 Quest Findings: STEM Hold on to your roof!, 118 Engineering Practices: Defining Problems, EM10</p> <p>Realize™ Digital Resources: Weather >Lesson 1, Water and Weather>uEngineer It! Video: Wild Weather >Lesson 3, Weather Hazards>Virtual Lab: Build a Weather Proof Home</p>

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ETS1.B	Developing Possible Solutions	
ETS1.B.1	Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	SE/TE: uEngineer It! Define STEM: A Fruitful Change, 192-193 uEngineer It! Design STEM: Have Your Fun, and Be Considerate Too, 242-243 Quest Findings: Help the Pond Organisms Survive, 244 Engineering Practices: Optimizing Solutions, EM13 Realize™ Digital Resources: Life Cycles and Traits >Lesson 2, Inherited Traits>uEngineer It! Video: A Fruitful Change Adaptations and Survival >Lesson 3, Survival When Environments Change>uEngineer It! Video: Have your fun, and be considerate too!
ETS1.C	Optimizing the Solution Process	
ETS1.C.1	Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.	SE/TE: STEM ulnvestigate Lab: How can you stop a flood?, 111 STEM Quest Check-In Lab: How can a roof be improved?, 116-117 Engineering Practices: Using Models and Prototypes, EM12

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