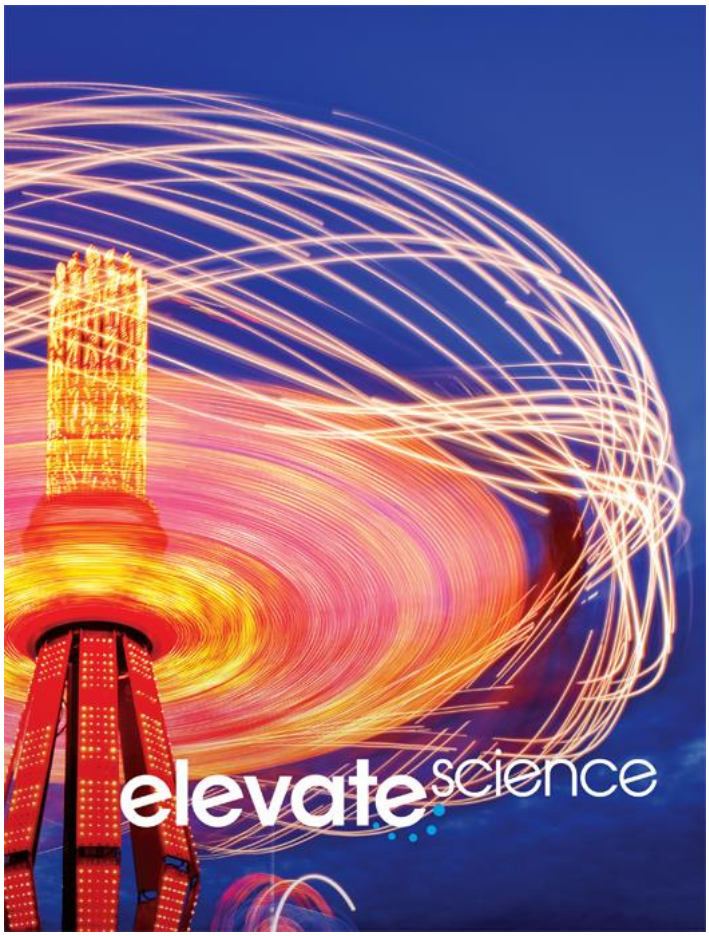
A Correlation of

Elevate Science

Grade 3, ©2019



To the

Tennessee Academic Standards for Science, Grade 3

Pearson

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to the
Tennessee Academic Standards for Science

Introduction

The following document demonstrates how the ***Elevate Science, ©2019*** program supports the Tennessee Academic 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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Tennessee Academic Standards for Science Grade 3		Elevate Science ©2019
3.PS1	3.PS1: Matter and Its Interactions	
3.PS1.1	1) Describe the properties of solids, liquids, and gases and identify that matter is made up of particles too small to be seen.	**SE/TE:** See Grade 2, Topic 1, Properties of Matter
3.PS1.2	2) Differentiate between changes caused by heating or cooling that can be reversed and that cannot.	**SE/TE:** See Grade 2, Topic 2, Changing Matter
3.PS1.3	3) Describe and compare the physical properties of matter including color, texture, shape, length, mass, temperature, volume, state, hardness, and flexibility.	**SE/TE:** See Grade 2, Topic 1, Properties of Matter
3.PS2	3.PS2: Motion and Stability: Forces and Interactions	
3.PS2.1 `	1) Explain the cause and effect relationship of magnets.	**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 Magnets, 66 uInvestigate Lab: How can you make a magnet?, 67 Magnetic Fields, 71
3.PS2.2	2) Solve a problem by applying the use of the interactions between two magnets.	**SE/TE:** Quest Check-In Lab: How can magnets sort objects by weight?, 72-73 uEngineer It!: Moving Along, 74-75 uDemonstrate Lab: How can you use a force?, 82-83

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3.PS3	3.PS3: Energy	
3.PS3.1	1) Recognize that energy is present when objects move; describe the effects of energy transfer from one object to another.	**SE/TE:** See Grade 4, Topic 1, Energy and Motion
3.PS3.2	2) Apply scientific ideas to design, test, and refine a device that converts electrical energy to another form of energy, using open or closed simple circuits.	**SE/TE:** See Grade 4, Topic 1, Energy and Motion
3.PS3.3	3) Evaluate how magnets cause changes in the motion and position of objects, even when the objects are not touching the magnet.	**SE/TE:** Visual Literacy Connection: What are noncontact forces?, 28-29 uConnect Lab: How can you move objects without touching them?, 54 Attract or Repel, 59 Quest Check-In Lab: How can magnets sort objects by weight?, 72-73 uEngineer It!: Moving Along, 74-75
3.LS1	3.LS1: From Molecules to Organisms: Structures and Processes	
3.LS1.1	1) Analyze the internal and external structures that aquatic and land animals and plants have to support survival, growth, behavior, and reproduction.	**SE/TE:** Plant Reproduction, 177 Survival in Different Habitats, 220 Differences Can Help Living Things, 221 See also Grade 4, Topic 7, Structures and Functions
3.LS2.2	3.LS2: Ecosystems: Interactions, Energy, and Dynamics	
3.LS2.3	1) Construct an argument to explain why some animals benefit from forming groups.	**SE/TE:** Visual Literacy Connection: Why do animals form groups?, 226-227 Animal Groups, 228-229 Lesson 2 Check, 229 Quest Check-In: Let's Get Together, 230

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3.LS4	3.LS4: Biological Change: Unity and Diversity	
3.LS4.1	1) Explain the cause and effect relationship between a naturally changing environment and an organism's ability to survive.	**SE/TE:** STEM Connection, 100 Differences Can Help Living Things, 221 Animal Groups, 228-229 Changes in the Environment, 234 Visual Literacy Connection: How do animals respond to seasonal changes?, 236-237 Changes in Environmental Conditions, 240 Lesson 3 Check, 240
3.LS4.2	2) Infer that plant and animal adaptations help them survive in land and aquatic biomes.	**SE/TE:** uConnect Lab: What clues do beak shapes give about birds?, 214 uInvestigate Lab: How do sea lions stay warm in cold waters?, 217 Visual Literacy Connection: How do living things adapt to survive?, 218-219 Changes in Environmental Conditions, 240 Quest Findings: Help the Pond Organisms Survive, 244
3.LS4.3	3) Explain how changes to an environment's biodiversity influence human resources.	**SE/TE:** See Grade 5, Topic 5, Human Impacts on Earth's Systems
3.ESS1	3.ESS1: Earth’s Place in the Universe	
3.ESS1.1	1) Use data and categorize the planets in the solar system as inner or outer planets according to their physical properties.	**SE/TE:** See Grade 5, Topic 6, Solar System

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3.ESS2	3.ESS2: Earth's Systems	
3.ESS2.1	1) Explain how different forms of water cycle on Earth.	**SE/TE:** Water on Earth, 92 uBe a Scientist: Transforming Water, 93 Water Cycle, 93 Visual Literacy Connection: How does precipitation form?, 94-95 Lesson 1 Check, 96 uBe a Scientist: Evaporation Investigation, 137
3.ESS2.2	2) Associate major cloud types (nimbus, cumulus, cirrus, stratus) with weather conditions.	**SE/TE:** Please see supporting content: Water on Earth, 92 Visual Literacy Connection, 94-95
3.ESS2.3	3) Use tables, graphs, and tools to describe precipitation, temperature, and wind (direction and speed) to predict local weather and climate.	**SE/TE:** uInvestigate Lab: When is the air dry?, 101 uDemonstrate Lab: What can barometric pressure tell you?, 124-125 uConnect Lab: How does temperature change on a mountain?, 130 Quest Check-In: Explore the World, 159 uDemonstrate Lab: What affects the climate in a region?, 166-167
3.ESS2.4	4) Incorporate weather data to describe major climates (polar, temperate, tropical) in different regions of the world.	**SE/TE:** Quest Kickoff: Climates on Location, 128-129 Literacy Connection: Compare and Contrast, 131 uInvestigate Lab: How does the sun's radiation vary on Earth's surface?, 133 Quest Check-In: Moody Weather, 140 uEngineer It!: Climate Change in a Bottle, 150-151 uInvestigate Lab: How do mountains affect climate?, 153 Quest Check-In: Explore the World, 159 Quest Findings: Climates on Location, 160

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3.ESS3	3.ESS3: Earth and Human Activity	
3.ESS3.1	1) Explain how natural hazards (fires, landslides, earthquakes, volcanic eruptions, floods) impact humans and the environment.	**SE/TE:** uEngineer It!, 98-99 Stem Connection, 110 Changes in the Environment, 234 Changes in Environmental Conditions, 240 Lesson 3 Check, 240 See also Grade 4, Topic 5, Earth's Natural Hazards
3.ESS3.2	2) Design solutions to reduce the impact of natural hazards (fires, landslides, earthquakes, volcanic eruptions, floods) on the environment.	**SE/TE:** See Grade 4, Topic 5, Earth's Natural Hazards
3.ETS1	3.ETS1: Engineering Design	
3.ETS1.1	1) Design a solution to a real-world problem that includes specified criteria for constraints.	**SE/TE:** uEngineer It!, 14-15 Quest Findings , 96 uEngineer It! , 242-243
3.ETS1.2	2) Apply research to support a design solution.	**SE/TE:** Quest Findings, 244
3.ETS2	3.ETS2: Links Among Engineering, Technology, Science, and Society	
3.ETS2.1	1) Identify and demonstrate how technology can be used for different purposes.	**SE/TE:** uEngineer It, 276-277