

A Correlation of
Elevate Science
Grade 1 ©2019



To the
Indiana
Academic Standards for Science
Grade 1

**A Correlation of Elevate Science, Grade ©2019
to the
Indiana Academic Standards for Science: Grade 1**

Introduction

The following document demonstrates how the ***Elevate Science***, ©2019 program supports the Indiana Academic Standards for Science, Grade 1. 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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1.PS	Physical Science	
1.PS.1	Characterize materials as solid, liquid, or gas and investigate their properties, record observations and explain the choices to others based on evidence (i.e., physical properties).	Objective is met in Elevate Science Grade K, Topic 2, Lesson 3: Solids, Liquids, and Gases
1.PS.2	Predict and experiment with methods (sieving, evaporation) to separate solids and liquids based on their physical properties.	Objective is met in Elevate Science Grade K, Topic 2, Lesson 3: Solids, Liquids, and Gases
1.PS.3	Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	SE/TE: uConnect Lab: How can a ruler make sound?, 4 Investigate Lab: How does size affect sound?, 7 Quest Check-In Lab: How can instruments talk?, 18-19 Investigate Lab: What does that sound say?, 21 Quest Check-In Lab: How can an instrument send a secret?, 25
1.PS.4	Make observations to collect evidence and explain that objects can be seen only when illuminated.	SE/TE: uConnect Lab: What do you need to see objects?, 40
1.ESS	Earth and Space Science	
1.ESS.1	Use observations of the sun, moon, and stars to describe patterns that can be predicted.	SE/TE: Jumpstart Discovery!, 86 Investigate Lab: How can you observe sun patterns?, 87 Moon Motions and Phases, 90 Moon Patterns, 92 STEM: Math Connection, 93 Quest Check-In Lab: How can you model the motions of the Earth?, 98-99 Quest Findings: Sky Watchers, 102

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1.ESS.2	Observe and compare properties of sand, clay, silt, and organic matter. Look for evidence of sand, clay, silt, and organic matter as components of soil samples.	Objective is met in Grade 2, Topic 3, Earth's Water and Land
1.ESS.3	Observe a variety of soil samples and describe in words and pictures the soil properties in terms of color, particle size and shape, texture, and recognizable living and nonliving items.	Objective is met in Grade 4, Topic 4, Earth's Features
1.ESS.4	Develop solutions that could be implemented to reduce the impact of humans on the land, water, air, and/or other living things in the local environment.	Objective is met in Elevate Science Grade K, Topic 6, Lesson 4: People Can Protect the Environment
1.LS	Life Science	
1.LS.1	Develop representations to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.	Objective is met in Elevate Science Grade 2, Topic 5, Lesson 1: Plant and Animal Life Cycles
1.LS.2	Develop a model mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. Explore how those external parts could solve a human problem.	SE/TE: uConnect Lab: How can you make a model of a plant?, 146 uEngineer It!: Design a Tool, 160-161 uInvestigate Lab: What can people learn from an acorn shell?, 163 Quest Check-In: How do snowshoe hares stay safe?, 174-175 Quest Findings: Nature Copycats, 176 uDemonstrate Lab: How do the spines of cacti help them? , 182-183

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1.LS.3	Make observations of plants and animals to compare the diversity of life in different habitats.	SE/TE: Jumpstart Discovery!, 168 Sensing Environments, 171 Land and Water Environments, 172-173
1.LS.4	Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live.	SE/TE: Quest Check-in Lab: How do snowshoe hares stay safe? , 174-175
K-2.E	Engineering	
K-2.E.1	Pose questions, make observations, and obtain information about a situation people want to change. Use this data to define a simple problem that can be solved through the construction of a new or improved object or tool.	SE/TE: uEngineer It!: Design a Code, 100-101 uEngineer It!: Design a Tool, 160-161 Improve the Design, EM12-EM13
K-2.E.2	Develop a simple sketch, drawing, or physical model to illustrate and investigate how the shape of an object helps it function as needed to solve an identified problem.	SE/TE: uEngineer It!: Design a Cooler!, 124-125 uConnect Lab: How can you make a model of a plant?, 146 uEngineer It!: Design a Tool, 160-161 uInvestigate Lab: How do nests protect eggs?, 207
K-2.E.3	Analyze data from the investigation of two objects constructed to solve the same problem to compare the strengths and weaknesses of how each performs.	SE/TE: uEngineer It!: Design a Cooler!, 124-125 uInvestigate Lab: How do whiskers help a cat?, 155

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