

A Correlation of
Elevate Science
Grade 1, ©2019



To the
Next Generation Science Standards
DCI (Disciplinary Core Idea) Arrangement



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Introduction

The following document demonstrates how the ***Elevate Science***, ©2019 program supports the Next Generation Science Standards, 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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Next Generation Science Standards	Elevate Science ©2019
1-PS4 Waves and their Applications in Technologies for Information Transfer	
Performance Expectation 1-PS4-1	
Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. Clarification Statement: Examples of vibrating materials that make sound could include tuning forks and plucking a stretched string. Examples of how sound can make matter vibrate could include holding a piece of paper near a speaker making sound and holding an object near a vibrating tuning fork.	SE/TE: 2-4, 6-19, 21, 25, 30-31
Disciplinary Core Ideas	
PS4.A: Wave Properties Sound can make matter vibrate, and vibrating matter can make sound.	SE/TE: 2-19, 21, 25, 30-31
Science and Engineering Practices	
Planning and Carrying Out Investigations Plan and conduct investigations collaboratively to produce evidence to answer a question.	SE/TE: 4, 7, 13, 18-19, 34-35
Connections to Nature of Science Science investigations begin with a question.	SE/TE: 4, 7, 13, 18-19, 34-35
Scientists use different ways to study the world.	SE/TE: 4, 7, 13
Crosscutting Concepts	
Cause and Effect Simple tests can be designed to gather evidence to support or refute student ideas about causes.	SE/TE: 4, 34-35

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Performance Expectation 1-PS4-2	
<p>Make observations to construct an evidence-based account that objects can be seen only when illuminated.</p> <p>Clarification Statement: Examples of observations could include those made in a completely dark room, a pinhole box, and a video of a cave explorer with a flashlight. Illumination could be from an external light source or by an object giving off its own light.</p>	SE/TE: 40, 42–47, 58, 60, 62–63, 68–69
Disciplinary Core Ideas	
<p>PS4.B: Electromagnetic Radiation</p> <p>Objects can be seen if light is available to illuminate them or if they give off their own light.</p>	SE/TE: 40, 42–47, 58, 60, 62–63, 68–69
Science and Engineering Practices	
<p>Constructing Explanations and Designing Solutions</p> <p>Make observations (firsthand or from media) to construct an evidence-based account for natural phenomena.</p>	SE/TE: 40, 59
Crosscutting Concepts	
<p>Cause and Effect</p> <p>Simple tests can be designed to gather evidence to support or refute student ideas about causes.</p>	SE/TE: 40