

**A Correlation of**  
**Elevate Science**  
**Grade 2 ©2019**



**To the**  
**Indiana**  
**Academic Standards for Science**  
**Grade 2**

**A Correlation of Elevate Science, Grade 2 ©2019  
to the  
Indiana Academic Standards for Science: Grade 2**

**Introduction**

The following document demonstrates how the ***Elevate Science, ©2019*** program supports the Indiana Academic Standards for Standards, Grade 2. 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 21<sup>st</sup> 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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<b>Indiana Academic Standards for Science Grade 2</b>		<b>Elevate Science Grade 2 ©2019</b>
2.PS	Physical Science	
2.PS.1	Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.	<b>SE/TE:</b> uConnect Lab, 4 uInvestigate Lab: What is different?, 7 uInvestigate Lab, 7 Quest Check-in, 11 uInvestigate Lab, 21 uDemonstrate Lab: How can you make something new?, 40-41
2.PS.2	Predict the result of combining solids and liquids in pairs. Mix, observe, gather, record, and discuss evidence of whether the result may have different properties than the original materials.	Objective is met in Grade 5, Topic 2, Changes in Matter
2.PS.3	Construct an argument with evidence that some changes caused by heating and cooling can be reversed and some cannot.	<b>SE/TE:</b> uInvestigate Lab: How can you change objects?, 49 uInvestigate Lab: How does heating and cooling change matter?, 55
2.PS.4	Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.	<b>SE/TE:</b> Quest Check-In: Build with Solids, Liquids, and Gases, 11 uInvestigate Lab: What can beavers teach engineers?, 15 Math Toolbox: Measuring Objects, 23 Quest Findings: Toy Building Kit, 34
2.ESS	Earth and Space Science	
2.ESS.1	Record detailed weather observations, including cloud cover, cloud type, and type of precipitation on a daily basis over a period of weeks and correlate observations to the time of year. Chart and graph collected data.	Objective is met in Grade K, Topic 4, Weather; see also Grade 3, Topic 3, Weather

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2.ESS.2	Investigate the severe weather of the region and its impact on the community, looking at forecasting to prepare for, and respond to, severe weather.	Objective is met in Grade K, Topic 4, Weather; see also Grade 3, Topic 3, Weather
2.ESS.3	Investigate how wind or water change the shape of the land and design solutions for prevention.	<b>SE/TE:</b> uConnect Lab: Which solution is better?, 116 uInvestigate Lab: How do plants protect fields from wind?, 131 uEngineer It!: Stop Wind Erosion, 138-139 Quest Findings!: Save the Town, 140 uDemonstrate Lab: How can you compare different solutions?, 146-147
2.ESS.4	Obtain information to identify where water is found on Earth and that it can be solid or liquid.	<b>SE/TE:</b> uConnect Lab: What covers most of the surface of Earth?, 80 Rivers and Streams, 92 The Ocean, 92 Glaciers, 93 Lakes and Ponds, 94 Quest Check-In: Describe Earth's Water, 95
2.LS	Life Science	
2.LS.1	Determine patterns and behavior (adaptations) of parents and offspring which help offspring to survive.	Objective is met in Grade 1, Topic 6, Parents and Offspring
2.LS.2	Compare and contrast details of body plans and structures within the life cycles of plants and animals.	<b>SE/TE:</b> uConnect Lab, 152 Animal Life Cycles, 160 Literacy Toolbox: Compare and Contrast, 160 Quest Check-In: Cycle of Life, 161

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2.LS.3	Classify living organisms according to variations in specific physical features (i.e. body coverings, appendages) and describe how those features may provide an advantage for survival in different environments.	Objective is met in Grade 3, Topic 5, Life Cycles and Traits
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.	<b>SE/TE:</b> <ul style="list-style-type: none"> <li>uInvestigate Lab: How can you change objects?, 49</li> <li>uEngineer It!: Improve a Sipping Cup, 66-67</li> <li>uConnect Lab: Which solution is better?, 116</li> <li>uEngineer It!: Stop Wind Erosion, 138-139</li> <li>uEngineer It!: Plan a Habitat on Mars, 202-203</li> <li>Define a Problem, EM10</li> </ul>
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.	<b>SE/TE:</b> <ul style="list-style-type: none"> <li>uEngineer It!: Design a Nutcracker, 12-13</li> <li>uInvestigate Lab: What can beavers teach engineers?, 15</li> <li>uDemonstrate Lab: How can you make something new?, 74-75</li> <li>uEngineer It!: Improve a Dam!, 96-97</li> <li>uInvestigate Lab: How do plants protect fields from wind?, 131</li> <li>uInvestigate Lab: How do plants survive in water?, 211</li> </ul>
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.	<b>SE/TE:</b> <ul style="list-style-type: none"> <li>uInvestigate Lab: What can beavers teach engineers?, 15</li> <li>uInvestigate Lab: What can you build?, 61</li> <li>Quest Findings!: Save the Town, 140</li> <li>uDemonstrate Lab: How can you compare different solutions?, 146-147</li> </ul>

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