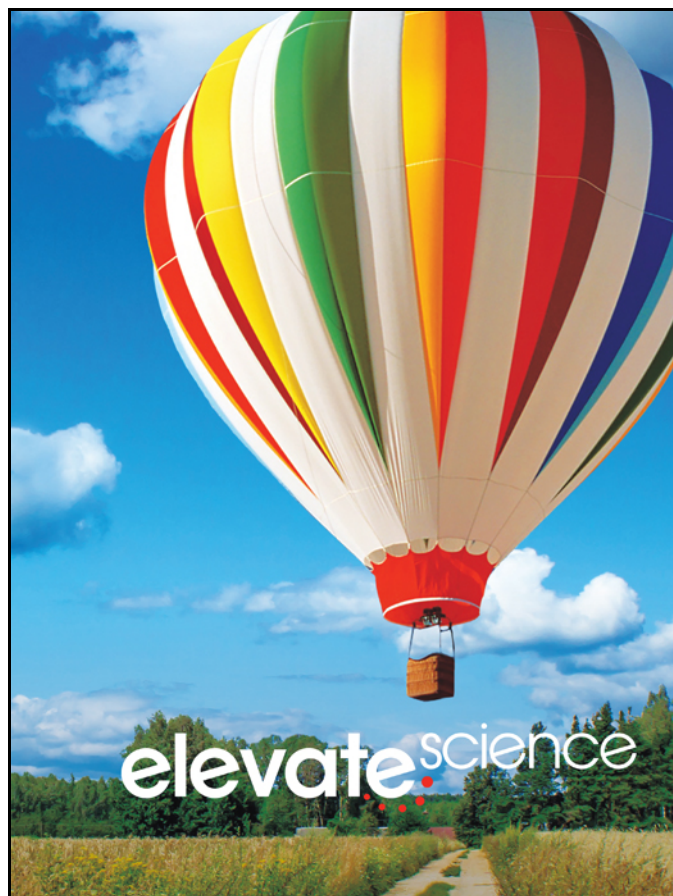


**A Correlation of**  
**Elevate Science**  
**Grade 5 ©2019**



**To the**  
**Indiana**  
**Academic Standards for Science**  
**Grade 5**

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to the  
Indiana Academic Standards for Science: Grade 5**

**Introduction**

The following document demonstrates how the ***Elevate Science***, ©2019 program supports the Indiana Academic Standards for Science, Grade 5. 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 5</b>		<b>Elevate Science Grade 5 ©2019</b>
5.PS	Physical Science	
5.PS.1	Describe and measure the volume and mass of a sample of a given material.	<b>SE/TE:</b> Mass and Volume, 29 uConnect Lab: What happens to mass when objects are mixed?, 46 Visual Literacy Connection: Is matter conserved?, 70-71 Quest Check-In Lab: How can you make modeling dough?, 74-75 uDemonstrate Lab: How does mass change when you make glop?, 94-95
5.PS.2	Demonstrate that regardless of how parts of an object are assembled the mass of the whole object is identical to the sum of the mass of the parts; however, the volume can differ from the sum of the volumes. (Law of Conservation of Mass)	<b>SE/TE:</b> Quest Connection, 69 Visual Literacy Connection: Is matter conserved?, 70-71 U Be a Scientist, 72
5.PS.3	Determine if matter has been added or lost by comparing mass when melting, freezing, or dissolving a sample of a substance. (Law of Conservation of Mass)	<b>SE/TE:</b> uDemonstrate Lab: How does mass change when you make glop?, 94-95
5.PS.4	Describe the difference between weight being dependent on gravity and mass comprised of the amount of matter in a given substance or material.	For supporting content, please see Quest Check-in Lab: How does gravity affect matter?, 283

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5.ESS	Earth and Space Science	
5.ESS.1	Analyze the scale of our solar system and its components: our solar system includes the sun, moon, seven other planets and their moons, and many other objects like asteroids and comets.	<p><b>SE/TE:</b>            Visual Literacy Connection: What is in our solar system?, 248-249            Quest Connection , 250            Quest Connection, 256            Visual Literacy Connection: How are the outer planets aligned?, 258-259            STEM Quest Check-In Lab: What planets are way out there?, 262            STEM Math Connection: How long does it take to orbit?, 293</p>
5.ESS.2	Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.	<p><b>SE/TE:</b>            Quest Kickoff: Plan a Trip Around the World of Patterns, 274-275            uInvestigate Lab: How are we spinning?, 285            Quest Check-In: Sun Up, Sun Down, 292            uInvestigate Lab: What star patterns can you see?, 295            Visual Literacy Connection: How do we identify star patterns in the sky?, 298-299            Quest Findings: Plan a Trip Around the World of Patterns, 306            uDemonstrate Lab: What can we tell from shadows? , 312-313</p>

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5.ESS.3	Investigate ways individual communities within the United States protect the Earth’s resources and environment.	<b>SE/TE:</b> Quest Kickoff: Take Care of Earth – It’s Our Home!, 182-183 uConnect Lab: How can we reuse materials to design new products?, 184 Air Resources, 192 uEngineer It!: Make Energy the Solar Way, 194-195 Reduce Human Impacts, 209 uInvestigate Lab: How can you collect rainwater?, 213 Resource Protection, 214 Environmental Conservation, 215 Reduce and Reuse, 218 Resource Use, 219 Quest Check-In: Increase Conservation, 220
5.ESS.4	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.	<b>SE/TE:</b> uInvestigate Lab: How does water move through soil?, 103 Visual Literacy Connection: What are parts of Earth’s geosphere and biosphere?, 106-107 uInvestigate Lab: How does the geosphere affect the hydrosphere?, 121 uDemonstrate Lab: How are the spheres represented in a terrarium?, 136-137 uEngineer It!: Ecosystems in a box, 394-395
5.LS	Life Science	
5.LS.1	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.	<b>SE/TE:</b> uDemonstrate Lab: How does matter move through an ecosystem?, 352-353 uInvestigate Lab: How can matter change in an ecosystem?, 369 uInvestigate Lab: How does matter move through an ecosystem?, 387 Plan It! , 388 Lesson 4 Check, 392 uEngineer It! Ecosystems in a Box, 394-395 uDemonstrate Lab: How can you model matter cycles in the Earth system?, 402-403

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5.LS.2	Observe and classify common Indiana organisms as producers, consumers, decomposers, or predator and prey based on their relationships and interactions with other organisms in their ecosystem.	<b>SE/TE:</b> Crosscutting Concepts Toolbox: Scale, 215 uConnect Lab: How do the parts in a fish tank make up a system?, 358 uInvestigate Lab: How do the parts of an ecosystem work together?, 361 Visual Literacy Connection: How do factors interact in a forest ecosystem?, 364-365 uInvestigate Lab: How can matter change in an ecosystem?, 369 Visual Literacy Connection: Who eats whom?, 372-373 Quest Check-In: Connections to Others, 376
5.LS.3	Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways.	Objective is met in Elevate Science Grade 4, Topic 7, Lessons 2 & 4
3-5.E	Engineering	
3-5.E.1	Identify a simple problem with the design of an object that reflects a need or a want. Include criteria for success and constraints on materials, time, or cost.	<b>SE/TE:</b> uEngineer It!: Robot Chef, 24-25 uEngineer It!: Foam Sweet Foam, 76-77 uEngineer It!: A New Home, 118-119 uEngineer It!: Make Energy the Solar Way, 194-195 uEngineer It!: What's with the dust?, 244-245 Defining Problems, EM10

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3-5.E.2	Construct and compare multiple plausible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.	<p><b>SE/TE:</b>            uDemonstrate Lab: How do you know what it is?, 40-41            STEM Quest Check-In Lab: How can you make modeling dough?, 74-75            uEngineer It!: Foam Sweet Foam, 76-77            Quest Check-In Lab: How can you make a new and improved formula?, 86-87            uConnect Lab: Where does water flow... and how fast?, 142            ulInvestigate Lab: How can you find water underground?, 155            STEM Quest Check-In Lab: How do we filter water?, 160-161            ulInvestigate Lab: How can you separate salt from water?, 163            Solve it With Science: Can people live on Mars?, 171            Quest Findings: Water, Water Everywhere!, 172            uDemonstrate Lab: How can water move upward?, 178-179            uConnect Lab: How can we reuse materials to design new products?, 184            ulInvestigate Lab: Where are the metals?, 187            uEngineer It!: Make Energy the Solar Way, 194-195            Quest Check-In Lab: How do building materials affect energy efficiency?, 210-211            ulInvestigate Lab: How can you collect rainwater?, 213            uDemonstrate Lab: How can you use the energy of water?, 228-229</p>
3-5.E.3	Construct and perform fair investigations in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.	<p><b>SE/TE:</b>            Quest Check-In Lab: How can you make a new and improved formula?, 86-87            uDemonstrate Lab: How are the spheres represented in a terrarium?, 136-137            uDemonstrate Lab: How can you model matter cycles in the Earth system?, 402-403</p>