

A Correlation of
Elevate Science
Kindergarten ©2019



To the
Indiana
Academic Standards for Science
Kindergarten

**A Correlation of Elevate Science Kindergarten ©2019
to the
Indiana Academic Standards for Science: Kindergarten**

Introduction

The following document demonstrates how the ***Elevate Science***, ©2019 program supports the Indiana Academic Standards for Science, Kindergarten. 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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Indiana Academic Standards for Science Kindergarten		Elevate Science Kindergarten ©2019
K.PS	Physical Science	
K.PS.1	Plan and conduct an investigation using all senses to describe and classify different kinds of objects by their composition and physical properties. Explain these choices to others and generate questions about the objects.	SE/TE: uInvestigate Lab: How are objects the same?, 49 Quest Check-In: How can you observe and sort objects, 54 Quest Check-In: How will you sort solids, liquids, and gases?, 60-61 uDemonstrate Lab: How is one object different?, 70-71
K.PS.2	Identify and explain possible uses for an object based on its properties and compare these uses with other students' ideas.	SE/TE: Quest Check-In: Shapes of Sails, 11
K.PS.3	Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.	SE/TE: uConnect Lab: How do things move?, 4 uInvestigate Lab: How can we make objects move?, 7 uInvestigate Lab: How do objects move?, 13 uDemonstrate Lab: How do objects change their motion?, 34-35
K.PS.4	Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.	SE/TE: Quest Check-in Lab: How does wind move my sail car? , 26 uDemonstrate Lab: How do objects change their motion?, 34-35 Improve the Design, EM11

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K.ESS	Earth and Space Science	
K.ESS.1	Make observations to determine the effect of sunlight on Earth’s surface and use tools and materials to design and build a structure to reduce the warming effect on Earth's surface.	SE/TE: uConnect Lab: What can you observe about the sun?, 76 uInvestigate Lab: What can the sun do?, 79 uEngineer It!: Sunny Days, 84-85 uInvestigate Lab: Which objects change in the sun?, 87 STEM Quest Check-in: Which material makes the best roof? , 92-93 uDemonstrate Lab: Where is it warmer?, 100-101
K.ESS.2	Describe and compare objects seen in the night and day sky, observing that the sun and moon move across the sky.	Please see Grade 1, Topic 3, Sky and Earth.
K.ESS.3	Investigate the local weather conditions to describe patterns over time.	SE/TE: uConnect Lab: How does the weather change during the day?, 106 uInvestigate Lab: What is the weather like in different seasons?, 123 uDemonstrate Lab: What is the weather like?, 142-143
K.ESS.4	Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.	SE/TE: uInvestigate Lab: How can you make something useful?, 211 New Uses for Old Things, 212 Helping Earth, 213 What You Can Do, 214 STEM Quest Check-in Lab: How can we save our trails?, 216-217

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K.LS	Life Science	
K.LS.1	Describe and compare the growth and development of common living plants and animals.	SE/TE: uInvestigate Lab: How does a plant grow and change?, 171 Living Things have Life Cycles, 172 Life Cycles Can Begin With Eggs, 174-175 Quest Check-in Lab: How do caterpillars change? , 176-177
K.LS.2	Describe and compare the physical features of common living plants and animals.	SE/TE: Literacy Connection, Alike and Different, 149
K.LS.3	Use observations to describe patterns of what plants and animals (including humans) need to survive.	SE/TE: uConnect Lab: What if plants do not get what they need?, 148 uInvestigate Lab: How do plants get water?, 151 uInvestigate Lab: Which feet do the best job?, 157 uDemonstrate Lab: What needs do pets have?, 184-185
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!: The Problem with a Tree, 218-219

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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: Quest Check-In: Shapes of Sails, 11 STEM Quest Check-In: How can you build your sail car?, 16-17 Quest Check-In: How does wind move my sail car?, 26 uEngineer It!: Up and Away!, 62-63 uInvestigate Lab: How can you collect rain?, 117 Improve the Design, EM11
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: Quest Check-In: How does wind move my sail car?, 26 uEngineer It!: The Problem with a Tree, 218-219

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