A Correlation of

Elevate Science

Kindergarten, ©2019

To the

Nebraska College and Career Ready Standards for Science Kindergarten

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Introduction

The following document demonstrates how the ***Elevate Science, ©2019*** program supports the Nebraska College and Career Ready Standards for Science, Grade K. 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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Nebraska College and Career Ready Standards for Science, Kindergarten		Elevate Science, ©2019
SC.K.1	Forces and Interactions: Pushes and Pulls	
SC.K.1.1	Gather, analyze, and communicate evidence of forces and their interactions.	
SC.K.1.1.A	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 Engineering Toolbox , 9 uInvestigate Lab: How do objects move?, 13 uEngineer It!: Maze Craze!, 18-19 uInvestigate Lab: How do you roll?, 21 Quest Check-In: How does wind move my sail car?, 26 uDemonstrate Lab: How do objects change their motion?, 34-35
SC.K.1.1.B	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:** uInvestigate Lab: How do objects move?, 13 STEM Quest Check-In: How can you build your sail car?, 16-17 uEngineer It!: Maze Craze!, 18-19 uInvestigate Lab: How do you roll?, 21 Quest Check-In: How does wind move my sail car?, 26 uDemonstrate Lab: How do objects change their motion?, 34-35

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SC.K.7	Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment	
SC.K.7.2	Gather, analyze, and communicate evidence of interdependent relationships in ecosystems.	
SC.K.7.2.A	Use observations to describe patterns of what plants and animals (including humans) need to survive.	**SE/TE:** Quest Kickoff: Let's Build a Park, 146-147 uConnect Lab: What if plants do not get what they need?, 148 uInvestigate Lab: How do plants get water?, 151 Crosscutting Concepts Toolbox: Patterns, 152 Plants Need Sunlight, 152 Quest Check-In: Fish in the Park, 161 uInvestigate Lab: What should you wear?, 165 Crosscutting Concepts Toolbox: Patterns, 166 Quest Connection, 175 Quest Check-In Lab: How do caterpillars change?, 176-177 Quest Findings: Let's Build a Park, 178 Topic Assessment, 180-181 uDemonstrate Lab: What needs do pets have?, 184-185
SC.K.7.2.B	Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.	**SE/TE:** uConnect Lab: How does a plant make a change to the place where it lives?, 190 uInvestigate Lab: How do squirrels change the land?, 199 Quest Connection, 200 Animals in Their Environment, 201 Quest Check-In: Changes in Nature, 203 Quest Check-In Lab: How can people change the land?, 208 Quest Findings: Trails for All, 220 Evidence-Based Assessment, 224-225 uDemonstrate Lab: How can an animal change where it lives?, 226-227
SC.K.7.2.C	Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live.	**SE/TE:** uEngineer It!: It Is Cold Out There!, 162-163 Quest Findings: Let's Build a Park, 178 uInvestigate Lab: How can you model changing the environment?, 205

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SC.K.7.2.D	Communicate solutions that will increase the positive impact of humans on the land, water, air, and/or other living things in the local environment.	**SE/TE:** Quest Kickoff: Trails for All, 188-189 Jumpstart Discovery!, 210 uInvestigate Lab: How can you make something useful?, 211 New Uses for Old Things, 212 Quest Connection, 212 Helping Earth, 213 Crosscutting Concepts Toolbox: Systems in Our World, 215 Quest Check-In Lab: How can we save our trails?, 216-217 Quest Findings: Trails for All, 220 Topic Assessment, 222-223 Evidence-Based Assessment, 224-225
SC.K.12	Weather and Climate	
SC.K.12.3	Gather, analyze, and communicate evidence of weather and climate.	
SC.K.12.3.A	Use and share observations of local weather conditions to describe patterns over time.	**SE/TE:** uConnect Lab: How does the weather change during the day?, 106 Jumpstart Discovery!, 108 Connecting Concepts Toolbox: Patterns, 118 Quest Check-In: Predict the Weather, 121 Quest Connection, 125 uDemonstrate Lab: What is the weather like?, 142-143
SC.K.12.3.B	Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.	**SE/TE:** Jumpstart Discovery!, 128 Quest Connection, 131 Be Prepared, 132 Quest Findings: Chasing Storms, 136

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SC.K.12.3.C	Make observations to determine the effect of sunlight on Earth's surface.	**SE/TE:** uConnect Lab: What can you observe about the sun?, 76 uInvestigate Lab: What can the sun do?, 79 uInvestigate Lab: Which objects change in the sun?, 87 Quest Connection, 91 Quest Check-In Lab: Which material makes the best roof?, 92-93 uDemonstrate Lab: Where is it warmer?, 100-101
SC.K.12.3.D	Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.	**SE/TE:** Quest Kickoff: Keep It Cool, 74-75 Quest Connection, 81 Quest Check-In: Staying Cool, 82 uEngineer It!: Sunny Days, 84-85 Quest Check-In Lab: Which material makes the best roof?, 92-93 Quest Findings: Keep It Cool, 94
SC.K.12.3.E	Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.	**SE/TE:** Quest Kickoff: A Messy Classroom, 38-39 Engineering Toolbox: Asking Questions and Defining Problems, 59 uEngineer It!: Up and Away!, 62-63 uEngineer It!: Sunny Days, 84-85 uEngineer It!: Don't Blow Away!, 114-115 uEngineer It!: It Is Cold Out There!, 162-163 uEngineer It!: The Problem with a Tree, 218-219