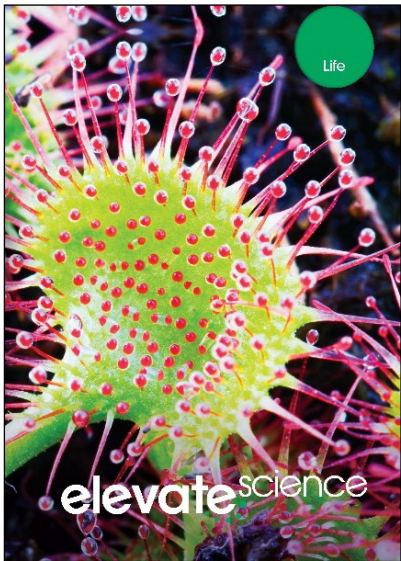


A Correlation of

Elevate Science

Life, Earth, & Physical

©2019



To

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Introduction

This document demonstrates how **Elevate Science LEP ©2019** Topics and themes align to the myPerspectives Grade 7 Essential Questions. Correlation page references are to the Student and Teacher's Editions and cited at the Topic/Lesson level.

Pearson is proud to introduce **Elevate Science** Middle Grades – where exploration is the heart of science! Designed to address the rigors of new science standards, students will experience science up close and personal, using real-world, relevant phenomena to solve project-based problems. Our newest program 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 arguments. The blended print and digital curriculum covers all Next Generation Science Standards at every grade level.

Elevate Science helps teachers transform learning, promote innovation, and manage their classroom.

Transform science classrooms by immersing students in active, three-dimensional learning.

Elevate Science engages students with real-world tasks, open-ended Quests, uDemonstrate performance-based labs, and in the engineering/design process with uEngineer It! investigations.

- A new 3-D learning model enhances best practices.
- Engineering-focused features infuse STEM learning.
- Phenomena-based activities put students at the heart of a Quest for knowledge.

Innovate learning by focusing on 21st century skills.

Students are encouraged to think, collaborate, and innovate! With **Elevate Science**, students explore STEM careers, experience engineering activities, and discover our scientific and technological world. The content, strategies, and resources of Elevate Science equip the science classroom for scientific inquiry and science and engineering practices.

- Problem-based learning Quests put students on a journey of discovery.
- STEM connections help integrate curriculum.
- Coding and innovation engage students and build 21st century skills.

Manage the classroom with confidence.

Teachers will lead their class in asking questions and engaging in argumentation. Evidence-based assessments provide new options for monitoring student understanding.

- Professional development offers practical point-of-use support.
- Embedded standards in the program allow for easy integration.
- ELL and differentiated instruction strategies help instructors reach every learner.
- Interdisciplinary connections relate science to other subjects.

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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Unit 1: Generations	
<p>Essential Question: What can one generation learn from another?</p>	<p>LIFE SE/TE: Topic 4: Reproduction and Growth Lesson 3: Animal Behaviors for Reproduction</p> <p>Topic 8: Natural Selection and Change Over Time Lesson 1: Early Study of Evolution Lesson 4: Evidence in the Fossil Record Lesson 5: Other Evidence of Evolution</p> <p>EARTH SE/TE: Topic 4: Plate Tectonics It's All Connected: The Slow Acceptance of Continental Drift</p> <p>Topic 5: Earth's Surface System uEngineer It!: Ground Shifting Advances: Maps Help Predict</p> <p>Topic 7: Human Impacts on the Environment Lesson 1: Population Growth and Resource Consumption Lesson 2: Air Pollution Lesson 3: Impacts on Land Lesson 4: Water Pollution</p> <p>PHYSICAL SE/TE: Topic 5: Waves and Electromagnetic Radiation uEngineer It!: Say "Cheese!"</p> <p>Topic 7: Information Technologies Lesson 3: Communication and Technology Extraordinary Science: Beam Me Up!</p> <p>Topic 9: Chemical Reactions Lesson 4: Producing Useful Materials</p>

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Unit 2: A Starry Home	
Essential Question: Should we make a home in space?	<p>LIFE SE/TE: Topic 4: Reproduction and Growth uEngineer It!: Gardening in Space</p> <p>Earth SE/TE: Topic 12: Solar System and the Universe Lesson 1: Solar System Objects Lesson 4: Galaxies Extraordinary Science: Traveling Thorough the Milky Way</p>
Unit 3: Turning Points	
Essential Question: What can cause a sudden change in someone’s life?	<p>LIFE SE/TE: Topic 1: Living Things in the Biosphere uEngineer It!, A Disease Becomes a Cure</p> <p>Topic 3: Human Body Systems Lesson 2: Systems Interacting</p> <p>Topic 6: Populations, Communities, and Ecosystems Lesson 2: Dynamic and Resilient Ecosystems</p> <p>Topic 7: Genes and Heredity Lesson 5: Genetic Technologies</p> <p>EARTH SE/TE: Topic 2: Weather in the Atmosphere Lesson 5: Severe Weather and Floods</p> <p>Topic 3: Minerals and Rocks in the Geosphere Case Study: Mighty Mauna Loa</p> <p>Topic 4: Plate Tectonics Lesson 3: Earthquakes and Tsunami Hazards Lesson 4: Volcanoes and Earth’s Surface</p> <p>Topic 5: Earth’s Surface System</p>

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Continued: Essential Question: What can cause a sudden change in someone’s life?	uEngineer It!: Ground Shifting Advances: Maps Help Predict Continued: PHYSICAL SE/TE: Topic 1: Introduction to Matter Case Study: An Epic Disaster Topic 2: Solids, Liquids, and Gasses Extraordinary Science: Freeze That Scalpel! Topic 3: Energy uEngineer It!: Prosthetics on the Move Topic 9: Chemical Reactions uEngineer It!: Making Water Safe to Drink
Unit 4: The People and the Planet	
Essential Question: What effects do people have on the environment?	LIFE SE/TE: Topic 4: Reproduction and Growth Case Study: Warmer Waters, Fewer Fish Topic 5: Ecosystems Quest Kickoff, Check-ins, and Findings: Mystery at Pleasant Pond uEngineer It!: Eating Oil Extraordinary Science: An Appetite for Plastic?! Case Study: The Case of the Disappearing Cerulean Warbler Topic 6: Populations, Communities, and Ecosystems Lesson 2: Dynamic and Resilient Ecosystems Lesson 3: Biodiversity Lesson 4: Ecosystem Services uEngineer It!: From Bulldozers to Biomes EARTH SE/TE: Topic 1: Introduction to Earth’s System Case Study: The Case of the Shrinking Sea

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<p style="text-align: center;">myPerspectives ©2017 Grade 7</p>	<p style="text-align: center;">Elevate Science ©2019 Life, Earth, & Physical</p>
<p>Continued: Essential Question: What effects do people have on the environment?</p>	<p>Topic 6: Distribution of Natural Resources Lesson 1: Nonrenewable Energy Resources Lesson 2: Renewable Energy Resources Lesson 4: Water Resources Case Study: Phosphorus Fiasco</p> <p>Continued:</p> <p>Topic 7: Human Impact on the Environment Quest Kickoff, Check-Ins, Finding: Trash Backlash Lesson 1: Population Growth and Resource Consumption Lesson 2: Air Pollution Lesson 3: Impacts on Land Lesson 4: Water Pollution Global to Local: Working Together to Reduce Air Pollution Case Study: Nothing Goes to Waste</p> <p>Topic 10: Climate Quest Kickoff, Check-Ins, Findings: Shrinking Your Carbon Footprint Lesson 2: Climate Change Lesson 3: Effects of Climate Change Case Study: The Carbon Cycle</p> <p>PHYSICAL SE/TE:</p> <p>Topic 1: Introduction to Matter Case Study: An Epic Disaster</p> <p>Topic 3: Energy Case Study: U.S. Energy Consumption</p> <p>Topic 6: Electricity and Magnetism Case Study: The X-57 Maxwell</p> <p>Topic 9: Chemical Reactions Case Study: Is Plastic Really So Fantastic?</p>

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Unit 5: Facing Adversity	
<p>Essential Question: How do we overcome obstacles?</p>	<p>LIFE SE/TE:</p> <p>Topic 1: Living Things in the Biosphere uEngineer It!, A Disease Becomes a Cure</p> <p>Topic 2: The Cell System uEngineer It!: An Artificial Leaf</p> <p>Topic 3: Human Body Systems uEngineer It!: Artificial Skin Case Study: Agents of Infection</p> <p>Topic 4: Reproduction and Growth uEngineer It!: Gardening in Space</p> <p>Topic 5: Ecosystems uEngineer It!: Eating Oil Extraordinary Science: An Appetite for Plastic?!</p> <p>Topic 6: Populations, Communities, and Ecosystems Lesson 1: Interactions in Ecosystems Lesson 2: Dynamic and Resilient Ecosystems Lesson 3: Biodiversity Lesson 4: Ecosystem Services uEngineer It!: From Bulldozers to Biomes</p> <p>Topic 7: Genes and Heredity Lesson 5: Genetic Technologies uEngineer It!: Reinventing DNA as Data Storage</p> <p>Topic 8: Natural Selection and Change over Time Extraordinary Science: DNA, Fossils, and Evolution</p>

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<p>Continued: Essential Question: How do we overcome obstacles?</p>	<p>Continued: EARTH SE/TE: Topic 1: Introduction to Earth’s System uEngineer It!: A Daring Bridge</p> <p>Topic 2: Weather in the Atmosphere Quest Kickoff, Check-Ins, Findings: Preparing a Plan Lesson 5: Severe Weather and Floods uEngineer It!: Catching Water with a Net</p> <p>Topic 4: Plate Tectonics Lesson 3: Earthquakes and Tsunami Hazards Lesson 4: Volcanoes and Earth’s Surface uEngineer It!: Designing to Prevent Destruction</p> <p>Topic 5: Earth’s Surface System uEngineer It!: Ground Shifting Advances: Maps Help Predict</p> <p>Topic 6: Distribution of Natural Resources Lesson 2: Renewable Energy Resources Lesson 4: Water Resources uEngineer It! Micro-Hydro Power</p> <p>Topic 7: Human Impact on the Environment Lesson 1: Population Growth and Resource Consumption Lesson 2: Air Pollution Lesson 3: Impacts on Land Lesson 4: Water Pollution uEngineer It!: From Waterwater to Tapwater Global to Local: Working Together to Reduce Air Pollution Case Study: Nothing Goes to Waste</p> <p>Topic 9: Energy in the Atmosphere and Ocean uEngineer It!: Windmills of the Future</p> <p>Topic 10: Climate Lesson 3: Effects of Climate Change uEngineer It!: Changing Climate Change</p>

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<p>Continued: Essential Question: How do we overcome obstacles?</p>	<p>Continued: Topic 11: Earth-Sun-Moon System uEngineer It!: Power from the Tides</p> <p>PHYSICAL SE/TE: Topic 1: Introduction to Matter Case Study: An Epic Disaster</p> <p>Topic 3: Energy uEngineer It!: Prosthetics on the Move</p> <p>Topic 4: Thermal Energy uEngineer It!: Shockwave to the Future</p> <p>Topic 9: Chemical Reactions Lesson 4: Producing Useful Materials uEngineer It!: Making Water Safe to Drink</p> <p>Topic 10: Forces and Motion Quest Kickoff, Check-Ins, Findings: Build a Better Bumper Car uEngineer It!: Generating Energy from Potholes Case Study: Finding Your Way with GPS</p>