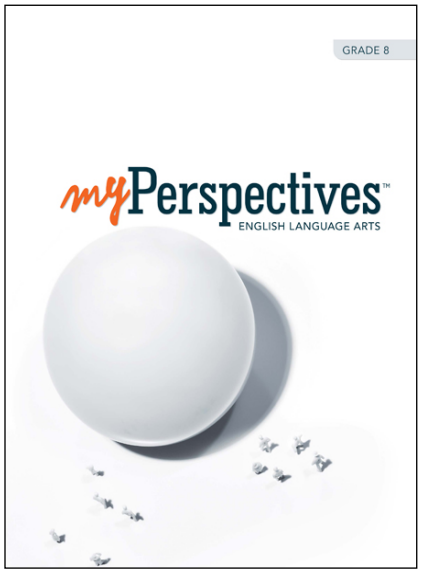
A Correlation of

Elevate Science

Life, Earth, & Physical

Grades 6-8, ©2019

To



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Introduction

This document demonstrates how ***Elevate Science LEP ©2019*** Topics and themes align to the MyPerspectives Grade 8 Essential Questions. Correlation page references are to the Student and Teacher's Editions and cited at the Topic/Lesson level.

Savvas 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.

SE = Student Edition **TE = Teacher Edition**

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Unit 1: Rite of Passage	
Essential Question: What are some milestones on the path to growing up?	**LIFE SE/TE:** **Topic 4: Reproduction and Growth** Lesson 4: Factors Influencing Growth
Unit 2: The Holocaust	
Essential Question: How do we remember the past?	The following citations reflect seeking information about the past, and do not reference the Holocaust. **LIFE SE/TE:** **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 uEngineer It!: Fossils from Bedrock Extraordinary Science**:** DNA, Fossils, and Evolution **EARTH SE/TE:** **Topic 8: History of Earth** Quest Kickoff, Check-ins, and Findings: The Big Fossil Hunt Lesson1: Determining Ages of Rocks Lesson 2: Geologic Time Scale Lesson 3: Major Events in Earth's History Case Study: Rewriting the History of Your Food uEngineer It! Tiny Fossil, Big Accuracy **Topic 12: Solar System and the Universe** Lesson 2: Learning About the Universe **PHYSICAL SE/TE:** **Topic 5: Waves and Electromagnetic Radiation** uEngineer It!: Say Cheese!

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Unit 3: What Matters?	
Essential Question: When is it right to take a stand?	**LIFE SE/TE:** **Topic 4: Reproduction and Growth** Quest Kickoff, Check-ins, Findings: Construction without Destruction **Topic 5: Ecosystems** Quest Kickoff, Check-ins, and Findings: Mystery at Pleasant Pond Case Study: The Case of the Disappearing Cerulean Warbler **Topic 6: Populations, Communities, and Ecosystems** Quest Kickoff, Check-ins, and Findings: To Cross or Not to Cross Case Study: The Dependable Elephant **Topic 7: Genes and Heredity** Lesson 5: Genetic Technologies **EARTH SE/TE:** **Topic 1: Introduction to Earth's Systems** Global to Local: When the Ice Melts Case Study: The Case of the Shrinking Sea **Topic 4: Plate Tectonics** uEngineer It!: Designing to Prevent Destruction **Topic 5: Earth's Surface System** Quest Kickoff, Check-ins, and Findings: Ingenious Island **Topic 6: Distribution of Natural Resources** Lesson 1: Nonrenewable Energy Resources Lesson 2: Renewable Energy Resources

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Continued: **Essential Question:** When is it right to take a stand?	Continued: **Topic 7: Human Impact on the Environment** Quest Kickoff, Check-ins, and Findings: 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 Pollution Case Study: Nothing Goes to Waste **Topic 9: Energy in the Atmosphere and Ocean** uEngineer It!: Windmills of the Future **Topic 10: Climate** Quest Kickoff, Check-ins, and Findings: Shrinking Your Carbon Footprint Lesson 2: Climate Change Lesson 3: Effects of Climate Change uEngineer It1: Changing Climate Change **Topic 11: Earth-Sun-Moon System** uEngineer It!: Power from the Tides **PHYSICAL SE/TE:** **Topic 1: Introduction to Matter** Case Study: An Epic Disaster **Topic 4: Thermal Energy** Case Study: Earth Power **Topic 9: Chemical Reactions** Case Study: Is Plastic Really So Fantastic?

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Unit 4: Human Intelligence	
Essential Question: In what different ways can people be intelligent?	**LIFE SE/TE:** **Topic 1: Living Things in the Biosphere** uEngineer It!, A Disease Becomes a Cure **Topic 2: The Cell System** uEngineer It!: An Artificial Leaf **Topic 3: Human Body Systems** uEngineer It!: Artificial Skin **Topic 5: Ecosystems** uEngineer It!: Eating Oil Extraordinary Science: An Appetite for Plastic?! **Topic 6: Populations, Communities, and Ecosystems** uEngineer It!: From Bulldozers to Biomes **Topic 7: Genes and Heredity** Lesson 5: Genetic Technologies uEngineer It!: Reinventing DNA as Data Storage **EARTH SE/TE:** **Topic 1: Introduction to Earth's Systems** uEngineer It!: A Daring Bridge **Topic 2: Weather in the Atmosphere** Quest Kickoff, Check-ins, and Findings Preparing a Plan Lesson 4: Predicting Weather Changes **Topic 3: Minerals and Rocks in the Geosphere** uEngineer It!: Examining Earth's Interior from Space **Topic 4: Plate Tectonics** uEngineer It!: Designing to Prevent Destruction

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Continued: **Essential Question:** In what different ways can people be intelligent?	Continued: **Topic 5: Earth's Surface System** Quest Kickoff, Check-ins, and Findings: Ingenious Island **Topic 6: Distribution of Natural Resources** Lesson 2: Renewable Energy Resources uEngineer It!: Micro-Hydro Power **Topic 7: Human Impacts on the Environment** Quest Kickoff, Check-ins, and Findings: 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 Pollution **Topic 9: Energy in the Ocean and Atmosphere** Quest Kickoff, Check-ins, and Findings: Finding the Atlantic Extraordinary Science: Measure Radiation with a Cube uEngineer It!: Windmills of the Future **Topic 10: Climate** Quest Kickoff, Check-ins, and Findings: Shrinking Your Carbon Footprint Lesson 3: Effects of Climate Change uEngineer It1: Changing Climate Change **Topic 11: Earth-Sun-Moon System** uEngineer It!: Power from the Tides **Topic 12: Solar System and the Universe** Lesson 2: Learning About the Universe

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Continued: **Essential Question:** In what different ways can people be intelligent?	Continued: **PHYSICAL SE/TE:** **Topic 1: Introduction to Matter** uEngineer It!: Gathering Speed with Superconductors **Topic 2: Solids, Liquids, and Gases** uEngineer It!: From Ink to Objects: 3-D Printing Extraordinary Science: Freeze That Scalpel! **Topic 3: Energy** Quest Kickoff, Check-ins, and Findings: Outrageous Energy Contraptions **Topic 4: Thermal Energy** Quest Kickoff, Check-ins, and Findings: Keep Liquids Hot uEngineer It!: Shockwave to the Future **Topic 5: Waves and Electromagnetic Radiation** Quest Kickoff, Check-ins, and Findings: Design to Stop a Thief **Topic 6: Electricity and Magnetism** Quest Kickoff, Check-ins, and Findings: Light as a Feather uEngineer It!: Electromagnetism in Action **Topic 7: Information Technologies** Quest Kickoff, Check-ins, and Findings: Testing, Testing...1, 2. 3 Lesson 3: Communication and Technology **Topic 9: Chemical Reactions** Quest Kickoff, Check-ins, and Findings: Hot and Cold Packs Lesson 4: Producing Useful Materials uEngineer It!: Making Water Safe to Drink

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Continued: **Essential Question:** In what different ways can people be intelligent?	Continued: **Topic 10: Forces and Motion** Quest Kickoff, Check-ins, and Findings: Build a Better Bumper Car uEngineer It!: Generating Energy from Potholes
Unit 5: Invention	
Essential Question: Are inventions realized through inspiration or perspiration?	**LIFE SE/TE:** **Topic 1: Living Things in the Biosphere** uEngineer It!, A Disease Becomes a Cure **Topic 2: The Cell System** uEngineer It!: An Artificial Leaf Extraordinary Science: Viewing Cells Through a Thermal Lens **Topic 3: Human Body Systems** uEngineer It!: Artificial Skin **Topic 5: Ecosystems** uEngineer It!: Eating Oil Extraordinary Science: An Appetite for Plastic?! **Topic 7: Genes and Heredity** Lesson 5: Genetic Technologies uEngineer It!: Reinventing DNA as Data Storage **EARTH SE/TE:** **Topic 1: Introduction to Earth's Systems** uEngineer It!: A Daring Bridge **Topic 2: Weather in the Atmosphere** uEngineer It!: Catching Water with a Net **Topic 4: Plate Tectonics** uEngineer It!: Designing to Prevent Destruction **Topic 5: Earth's Surface Motion** uEngineer It!: Ground Shifting Advances: Maps Help Predict

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Continued: **Essential Question:** Are inventions realized through inspiration or perspiration?	Continued: **Topic 6: Distribution of Natural Resources** uEngineer It!: Micro-Hydro Power **Topic 7: Human Impact on the Environment** uEngineer It!: From Wastewater to Tapwater **Topic 9: Energy in the Ocean and Atmosphere** Extraordinary Science: Measure Radiation with a Cube uEngineer It!: Windmills of the Future **Topic 11: Earth-Sun-Moon System** uEngineer It!: Power from the Tides **Topic 12: Solar System and the Universe** Lesson 2: Learning About the Universe uEngineer It!: Blast Off! **PHYSICAL SE/TE:** **Topic 1: Introduction to Matter** Case Study: An Epic Disaster uEngineer It!: Gathering Speed with Superconductors **Topic 2: Solids, Liquids, and Gases** Quest Kickoff, Check-ins, and Findings: Getting a Lift uEngineer It!: From Ink to Objects: 3-D Printing Extraordinary Science: Freeze That Scalpel! **Topic 3: Energy** Quest Kickoff, Check-ins, and Findings: Outrageous Energy Contraptions uEngineer It!: Prosthetics on the Move **Topic 4: Thermal Energy** Quest Kickoff, Check-ins, and Findings: Keep Liquids Hot uEngineer It!: Shockwave to the Future

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Continued: **Essential Question:** Are inventions realized through inspiration or perspiration?	Continued: **Topic 5: Waves and Electromagnetic Radiation** Quest Kickoff, Check-ins, and Findings: Design to Stop a Thief **Topic 6: Electricity and Magnetism** Quest Kickoff, Check-ins, and Findings: Light as a Feather uEngineer It!: Electromagnetism in Action **Topic 7: Information Technologies** Lesson 3: Communication and Technology Case Study: Super Ultra High Definition Extraordinary Science: Beam Me Up **Topic 8: Atoms and the Periodic Table** uEngineer It!: When Particles Collide **Topic 9: Chemical Reactions** Quest Kickoff, Check-ins, and Findings: Hot and Cold Packs Lesson 4: Producing Useful Materials uEngineer It!: Making Water Safe to Drink **Topic 10: Forces and Motion** Quest Kickoff, Check-ins, and Findings: Build a Better Bumper Car uEngineer It!: Generating Energy from Potholes Case Study: Finding Your Way with GPS