

**A Correlation of**  
**Elevate Science Modules**  
**Grades 6-8, ©2019**



**To the**  
**Mississippi**  
**2018 College- and Career-Readiness**  
**Standards for Science, Grade 6**

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To the  
Mississippi College- and Career-Readiness Standards for Science, Grade 6**

**Introduction**

The following document demonstrates how the ***Elevate Science Middle Grades Modules ©2019*** program supports Mississippi College- and Career-Readiness Standards for Science. Correlation references include the Student Edition, Teacher Edition, and online Realize™ digital resources.

Savvas Learning Company is proud to introduce ***Elevate Science Modules*** for 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 phenomena, open-ended Quests, uDemonstrate performance-based tasks, 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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<b>L.6 Life Science</b>	
<b>DCI.L.6.1 Hierarchical Organization</b>	
L.6.1.1 Use argument supported by evidence in order to distinguish between living and non-living things, including viruses and bacteria	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Connect It!, 4            Characteristics of Living Things, 5-7            Lesson 1 Check, 13            Quest Check-In, 13            Connect It!, 16            Quest Check-In, 24            Connect It!, 26            Virus Invasion, 29            The Many Roles of Bacteria, 32            Quest Check-In, 36            Lesson 3 Check, 36            Evidence-Based Assessment, 52-53            uDemonstrate Lab: It's Alive!, 54-57            Lesson 1 Check, 122            Case Study: Agents Of Infection, 134-135</p> <p><b>Realize™ Digital Resources:</b>  <b>Systems, Reproduction, and Growth: Living Things in the Biosphere</b>            &gt;Topic Launch&gt;Quest Kickoff: How can you design a field guide to organize living things?            &gt;Lesson 1, Living Things&gt;Hands-on Lab: All Wound Up;&gt;Interactivity: Under the Microscope            &gt;Lesson 3, Viruses, Bacteria, Protists, and Fungi&gt;Interactivity: Life as a Single Cell            &gt;Topic Close&gt;Interactivity: Quest Findings: How can you design a field guide to organize living things?</p>
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<p>L.6.1.3 Develop and use models to explain how specific cellular components (cell wall, cell membrane, nucleus, chloroplast, vacuole, and mitochondria) function together to support the life of prokaryotic and eukaryotic organisms to include plants, animals, fungi, protists, and bacteria (not to include biochemical function of cells or cell part).</p>	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Model It!: Bacterial Cell Structures, 30            Connect It!, 38            Characteristics of Plants, 40-43            Cell Wall, 74            Cell Membrane, 75            Organelles in the Cytoplasm, 76-78            Model It!: The Substance of Life, 77            Function of the Cell Membrane, 84            Passive Transport, 84-87            Model It: Raisins No More, 86            Model It!, 89            Lesson 3 Check, 90            Lesson 4 Check, 101            Topic Review and Assess, 102-103            Evidence-Based Assessment, 104-105</p> <p><b>Realize™ Digital Resources:</b>  <b>Systems, Reproduction, and Growth: The Cell System</b>            &gt;Topic Launch&gt;Quest Kickoff: How can you design a model exhibit for a science museum?            &gt;Lesson 2, Cell Structures&gt;Interactivity: Structure Function;&gt;Interactivity: Build a Cell;&gt;Quest Check-In            Lab: Make a Cell Model</p>

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L.6.1.4 Compare and contrast different cells in order to classify them as a protist, fungus, plant, or animal.	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Protists, 33            Fungi, 34-35            Fungal Reproduction, 34            Connect It!, 38            Characteristics of Plants, 40-43            Lesson 4 Check, 49            Topic Review and Assess, 50-51            Cell Wall, 74            Organelles in the Cytoplasm, 76-78            Lesson 2 Check, 81            Topic Review and Assess, 102-103            Evidence-Based Assessment, 104-105</p> <p><b>Realize™ Digital Resources:</b>  <b>Systems, Reproduction, and Growth: Living Things in the Biosphere</b>            &gt;Lesson 3, Viruses, Bacteria, Protists, and Fungi&gt;            Investigate Lab: Life In a Drop of Pond Water            &gt;Lesson 4, Plants and Animals&gt;            Interactivity: So Many Cells</p> <p><b>Systems, Reproduction, and Growth: The Cell System</b>            &gt;Lesson 2, Cell Structures&gt;            Interactivity: Structure Function, Junction;&gt;            Investigate Lab: Comparing Cells</p>
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<p>L.6.1.6 Develop and use models to show relationships among the increasing complexity of multicellular organisms (cells, tissues, organs, organ systems, organisms) and how they serve the needs of the organism.</p>	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Structure of Animals, 44            Topic Review and Assess, 102-103            Connect It!, 114            Cells and Tissues, 116            Organs and Systems, 117            Organ Systems in the Human Body, 120-121            Connect It!, 124            Systems Working Together, 125-129            The Digestive System as a Whole, 145            uDemonstrate Lab: Reaction Research, 174-177            uConnect Lab: How Is Your Body Organized?, 113A-113B</p> <p><b>Realize™ Digital Resources:</b>  <b>Systems, Reproduction, and Growth: Human Body Systems</b>            &gt;Lesson 1, Body Organization&gt;uInvestigate Lab: Observing Cells and Tissues&gt;Interactivity: Interacting Systems            &gt;Lesson 3, Supplying Energy&gt;Interactivity: A Day in the Life of a Cell</p>
<p><b>DCI.L.6.3 Ecology and Interdependence</b></p>	
<p>L.6.3.1 Use scientific reasoning to explain differences between biotic and abiotic factors that demonstrate what living organisms need to survive.</p>	<p><b>Relationships Within Ecosystems SE/TE:</b>            Connect It!, 4            Biotic Factors, 38            Abiotic Factors, 38            Lesson 1 Check, 43            Topic Review and Assess, 66-67</p> <p><b>Realize™ Digital Resources:</b>  <b>Relationships Within Ecosystems: Ecosystems</b>            &gt;Lesson 1, Living Things and the Environment&gt;Interactivity: Factors Affecting Growth</p>

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<p>L.6.3.2 Develop and use models to describe the levels of organization within ecosystems (species, populations, communities, ecosystems, and biomes).</p>	<p><b>Relationships Within Ecosystems SE/TE:</b>  uEngineer It!: Engineering Artificial Photosynthesis, 13  Model It!, 19  Lesson 2 Check, 22  Topic Review and Assess, 24-25  Quest Connection, 46  Connect It!, 46  Consumers, 48  Energy Pyramids, 52  Quest Check-In, 54  uEngineer It!: Eating Oil, 55  Connect It!, 56  Quest Connection, 56  Oxygen Cycle, 60  Lesson 3 Check, 64  Topic Review and Assess, 66-67  uDemonstrate Lab: Last Remains, 70-73</p> <p><b>Realize™ Digital Resources:</b>  <b>Relationships Within Ecosystems: Cell Processes</b>  &gt;Lesson 1, Photosynthesis&gt;uEngineer It! Video:  Engineering Video  <b>Relationships Within Ecosystems: Ecosystems</b>  &gt;Lesson 2, Energy Flow in Ecosystems&gt;uEngineer It!  Interactivity: Cleaning an Oil Spill</p>



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<p>L.6.3.3 Analyze cause and effect relationships to explore how changes in the physical environment (limiting factors, natural disasters) can lead to population changes within an ecosystem.</p>	<p><b>Relationships Within Ecosystems SE/TE:</b>            Climate Factors That Limit Population Growth, 42            Lesson 1 Check, 43            Secondary Succession, 91            Ecosystem Disruptions and Population Survival, 92-93            Lesson 2 Check, 94            Niche Diversity, 100            Other Factors, 102            Math Toolbox: Room to Roam, 102            Lesson 3 Check, 107            Quest Check-In, 107            Case Study: The Dependable Elephant, 108-109            Literacy Connection: Write Arguments, 116            Topic Review and Assess, 120-121            Evidence-Based Assessment, 122-123            uDemonstrate Lab: Changes in an Ecosystem, 124-127</p> <p><b>Realize™ Digital Resources:</b>  <b>Relationships Within Ecosystems: Ecosystems</b>            &gt;Lesson 1, Living Things and the Environment&gt;            uInvestigate Lab: Modeling a Dam  <b>Relationships Within Ecosystems: Populations, Communities, and Ecosystems</b>            &gt;Lesson 2, Dynamic and Resilient Ecosystems&gt;            Interactivity: A Butterfly Mystery</p>
<p>L.6.3.4 Investigate organism interactions in a competitive or mutually beneficial relationship (predation, competition, cooperation, or symbiotic relationships).</p>	<p><b>Relationships Within Ecosystems SE/TE:</b>            Communities, 39            Energy Roles in an Ecosystem, 47-49            Consumers, 48            Lesson 2 Check, 54            Competition, 81            Competition and Predation, 81-83            Adaptations, 82            Predation, 82            Symbiotic Relationships, 84-86            Mutualism, 84-85            Parasitism, 86            Lesson 1 Check, 87            Quest Check-In, 87            Quest Check-In, 107            Case Study: The Dependable Elephant, 108-109</p> <p><b>Realize™ Digital Resources:</b>  <b>Relationships Within Ecosystems: Populations, Communities, and Ecosystems</b>            &gt;Lesson 1, Interactions in Ecosystems&gt;            Interactivity: Symbiotic Relationships;&gt;            Video: Interactions in Ecosystems;&gt;            uInvestigate Lab: Competition and Predation</p>

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<p>L.6.3.5 Develop and use food chains, webs, and pyramids to analyze how energy is transferred through an ecosystem from producers (autotrophs) to consumers (heterotrophs, including humans) to decomposers.</p>	<p><b>Relationships Within Ecosystems SE/TE:</b>            Cellular Respiration Equation, 18            Lesson 2 Check, 22            Quest Connection, 46            Connect It!, 46            Producers, 47            Consumers, 48            Food Webs, 50-51            Food Chains, 50            Model It!: Food Web, 51            Energy Pyramids, 52            Energy Availability, 53            Lesson 2 Check, 54            Quest Check-In, 54            Quest Connection, 56            Topic Review and Assess, 66-67            Evidence-Based Assessment, 68-69            uDemonstrate Lab: Last Remains, 70-73            Supporting Services, 114</p> <p><b>Realize™ Digital Resources:</b>  <b>Relationships Within Ecosystems: Ecosystems</b>            &gt;Lesson 2, Energy Flow in Ecosystems&gt;Interactivity: Energy Roles and Flows;&gt;Interactivity: Living Things in Ecosystems;&gt;Video: Energy Flow in Ecosystems</p>
<p><b>DCI.L.6.4 Adaptation and Diversity</b></p>	
<p>L.6.4.1 Compare and contrast modern classification techniques (e.g., analyzing genetic material) to the historical practices used by scientists such as Aristotle and Carolus Linnaeus.</p>	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Linnaean Naming System, 17            Binomial Nomenclature, 20            Evolution and Classification, 22-23            Common Ancestry, 22            Evolutionary Relationships, 23            Lesson 2 Check, 24            Extraordinary Science: Classification - What's A Panda?, 25            Topic Review and Assess, 50-51</p> <p><b>Diversity of Life SE/TE:</b>            Linnaeus' System of Classification, 72            Lesson 1 Check, 79            Question It!: Evolution of the Modern Elephant, 103            Connect It!, 112            Math Toolbox: All in the Family, 117</p> <p><b>Realize™ Digital Resources:</b>  <b>Systems, Reproduction, and Growth: Living Things in the Biosphere</b>            &gt;Lesson 2, Classification Systems&gt;Interactivity: Classify It!;&gt;uInvestigate Lab: Living Mysteries</p>

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<p>L.6.4.2 Use classification methods to explore the diversity of organisms in kingdoms (animals, plants, fungi, protists, bacteria). Support claims that organisms have shared structural and behavioral characteristics.</p>	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Classifying Organisms, 17-21            Taxonomy, 18            Domains, 18            Levels of Classification, 19            Binomial Nomenclature, 20            Scientific Names, 21            Connect It!, 26            Protists, 33            Nonvascular Plants, 43            Topic Review and Assess, 50-51</p> <p><b>Diversity of Life SE/TE:</b>            Linnaeus' System of Classification, 72</p> <p><b>Realize™ Digital Resources:</b>  <b>Systems, Reproduction, and Growth: Living Things in the Biosphere</b>            &gt;Lesson 2, Classification Systems&gt;Interactivity: Classify It!</p>
<p>L.6.4.3 Analyze and interpret data from observations to describe how fungi obtain energy and respond to stimuli (e.g., bread mold, rotting plant material).</p>	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Fungi, 34-35            Fungal Reproduction, 34            Roles of Fungi, 35            Lesson 3 Check, 36            Case Study: Agents of Infection, 134-135</p> <p><b>Realize™ Digital Resources:</b>  <b>Systems, Reproduction, and Growth: Living Things in the Biosphere</b>            &gt;Lesson 3, Viruses, Bacteria, Protists, and Fungi&gt;Interactivity: There's Something Going Around</p>
<p>L.6.4.4 Conduct investigations using a microscope or multimedia source to compare the characteristics of protists (euglena, paramecium, amoeba) and the methods they use to obtain energy and move through their environment (e.g., pond water).</p>	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Connect It!, 4            Protists, 33            Topic Review and Assess, 50-51</p> <p><b>Realize™ Digital Resources:</b>  <b>Systems, Reproduction, and Growth: Living Things in the Biosphere</b>            &gt;Lesson 3, Viruses, Bacteria, Protists, and Fungi&gt;Investigate Lab: Life In a Drop of Pond Water</p>

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<p>L.6.4.5 Engage in scientific arguments to support claims that bacteria (Archaeobacteria and Eubacteria) and viruses can be both helpful and harmful to other organisms and the environment.</p>	<p><b>Systems, Reproduction, and Growth SE/TE:</b>            Connect It!, 26            Disease, 28-29            Reproduction, 28            Viruses, 28-29            Shapes and Names, 28            Bacteria, 30-32            Infectious Bacteria, 30            Bacterial Cell Structures, 30            Survival, 31            Bacterial Reproduction, 31-32            Obtaining Food, 31            Lesson 3 Check, 36            uEngineer It!: A Disease Becomes a Cure, 37            Defense System, 119            Fighting Disease, 132            Case Study: Agents Of Infection, 134-135</p> <p><b>Realize™ Digital Resources:</b>  <b>Structure and Properties of Matter: Properties of Matter</b>            &gt;Lesson 3, Viruses, Bacteria, Protists, and Fungi            &gt;uEngineer It! Interactivity: Modifying a Virus</p>
<b>P.6 Physical Science</b>	
<b>DCI.P.6.6 Motions, Forces, and Energy</b>	
<p>P.6.6.1 Use an engineering design process to create or improve safety devices (e.g., seat belts, car seats, helmets) by applying Newton’s Laws of motion. Use an engineering design process to define the problem, design, construct, evaluate, and improve the safety device.</p>	<p><b>Energy Transfer SE/TE:</b>            uEngineer It!: Prosthetics on the Move, 21</p> <p><b>Forces SE/TE:</b>            uEngineer It!: Generating Energy From Potholes, 33            uDemonstrate Lab: Stopping on a Dime, 48-51            uEngineer It!: Electromagnetism In Action, 81</p> <p><b>Realize™ Digital Resources:</b>  <b>Forces: Forces and Motion</b>            &gt;Topic Launch&gt;Quest Kickoff: How can you take the crash out of a collision?            &gt;Lesson 3, Newton’s Law of Motion&gt;uEngineer It! Interactivity: Fuel-Efficient Vehicles            &gt;Topic Close&gt;Interactivity: Quest Findings: How can you take the crash out of a collision?  <b>Forces: Electricity and Magnetism</b>            &gt;Lesson 3, Electromagnetic Forces&gt;uEngineer It! Video: Superconductors Energy Transfer: Energy            &gt;Lesson 2, Kinetic Energy and Potential Energy&gt;Interactivity: Falling for Velocity</p>

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<p>P.6.6.2 Use mathematical computation and diagrams to calculate the sum of forces acting on various objects.</p>	<p><b>Forces SE/TE:</b>            Describing Force, 7            Balanced and Unbalanced Forces, 9-10            Model it!: Forces in Tug-of-War, 9            Math Toolbox: Using a Distance-Versus-Time Graph, 15            Calculating Speed From a Graph, 15            Case Study: Finding Your Way With GPS, 22-23</p> <p><b>Realize™ Digital Resources:</b>  <b>Forces: Forces and Motion</b>            &gt;Lesson 2, Speed, Velocity, and Acceleration&gt;Interactivity: Motion Graphs</p>
<p>P.6.6.3 Investigate and communicate ways to manipulate applied/frictional forces to improve movement of objects on various surfaces (e.g., athletic shoes, wheels on cars).</p>	<p><b>Energy Transfer SE/TE:</b>            Connect It!, 32            Model It!: Friction and Energy Transformation, 76            Materials for Space Shuttles, 77-78</p> <p><b>Forces SE/TE:</b>            Types of Forces, 8            Connect It!, 12            Connect It!, 34            Quest Connection, 34            Factors That Affect Friction, 35-37            Two Factors, 35            Types of Friction, 36-37            Quest Check-In, 42            Lesson 4 Check, 42            Topic Review and Assess, 44-45</p> <p><b>Realize™ Digital Resources:</b>  <b>Forces: Forces and Motion</b>            &gt;Lesson 4, Friction and Gravitational Interactions&gt;Investigate Lab: Sticky Sneakers;&gt;Investigate Lab: Observing Friction;&gt;Quest Check-In Lab: Bumping Cars, Bumper Solutions</p>

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<p>P.6.6.4 Compare and contrast magnetic, electric, frictional, and gravitational forces.</p>	<p><b>Forces SE/TE:</b>            Quest Check-In, 42            Types of Forces, 8            Connect It!, 34            How Generators Work, 89            Electric Force, 58            Quest Connection, 56            Magnetic Force, 68            Lesson 3 Check, 80            Magnetic Fields and Current, 76-77            Electromagnetic Induction, 86-88            Types of Friction, 36-37            Electric Force, Fields, and Energy, 57-59            Magnetic Force and Energy, 67-68            Solenoids and Electromagnets, 78-79</p> <p><b>Realize™ Digital Resources:</b>  <b>Structure and Properties of Matter: Introduction to Matter</b>            &gt;Lesson 3, Changes in Matter&gt;uEngineer It! Video: Gathering Speed with Superconductors  <b>Forces: Electricity and Magnetism</b>            &gt;Lesson 4, Electric and Magnetic Interactions&gt;Interactivity: Electricity, Magnets, and Motion</p>
<p>P.6.6.5 Conduct investigations to predict and explain the motion of an object according to its position, direction, speed, and acceleration.</p>	<p><b>Forces SE/TE:</b>            An Object in Motion, 5-6            How Forces Affect Motion, 7-10            Balanced and Unbalanced Forces, 9-10            Calculating Speed, 13-15            Calculating Speed From a Graph, 15            Quest Check-In, 21            Newton's Second Law of Motion, 27-28            Changes in Acceleration and Mass, 27            Calculating Force, 27</p> <p><b>Realize™ Digital Resources:</b>  <b>Energy Transfer: Energy</b>            &gt;Topic Launch&gt;Quest Kickoff: How can you build a complex machine to do something simple?            &gt;Lesson 1, Energy, Motion, Force, and Work&gt;Quest Check-In Interactivity: Applying Energy            &gt;Lesson 3, Other Forms of Energy&gt;Quest Check-In Lab: Test and Evaluate a Chain-Reaction Machine            &gt;Topic Close&gt;Interactivity: Quest Findings: How can you build a complex machine to do something simple?  <b>Forces: Forces and Motion</b>            &gt;Lesson 1, Describing Motion and Force&gt;Inquiry Warm-Up Lab: Is the Force With You?            &gt;Lesson 2, Speed, Velocity, and Acceleration&gt;Quest Check-In Lab: Mass, Speed, and Colliding Cars</p>

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<p>P.6.6.6 Investigate forces (gravity, friction, drag, lift, thrust) acting on objects (e.g., airplane, bicycle helmets). Use data to explain the differences between the forces in various environments.</p>	<p><b>Forces SE/TE:</b> Balanced and Unbalanced Forces, 9-10 Model it!: Forces in Tug-of-War, 9 Math Toolbox: Effects of Net Force, 10 Lesson 1 Check, 11 Quest Check-In, 11</p> <p><b>Realize™ Digital Resources:</b> <b>Forces: Forces and Motion</b> &gt;Lesson 1, Describing Motion and Force&gt;Inquiry Warm-Up Lab: Is the Force with You?</p>
<p>P.6.6.7 Determine the relationships between the concepts of potential, kinetic, and thermal energy.</p>	<p><b>Structure and Properties of Matter SE/TE:</b> Temperature and Thermal Energy, 30 Thermal Energy and Changes in Matter, 31 Thermal Energy and Temperature, 57 Topic Review and Assess, 78-79</p> <p><b>Energy Transfer SE/TE:</b> Quest Check-In, 13 Quest Connection, 14 Quest Check-In, 20 Quest Connection, 22 Determining Mechanical Energy, 23 Quest Check-In, 30 Connect It!, 32 Quest Connection, 32 Energy Changes Form, 33-35 Kinetic and Potential Energy, 34 Model It!: Conservation in Demolition, 35 Energy Transformation and Transfer, 35 Lesson 4 Check, 39 Quest Check-In, 39 Topic Review and Assess, 42-43 How Temperature and Thermal Energy Are Related, 57-59 Comparing Thermal Energy, 58 Changes in Temperature, 59 Lesson 1 Check, 60 It's All Connected: Glassblowing, 61 Question It!, 67 Quest Connection, 72 Thermal Expansion, 75 Lesson 3 Check, 79</p> <p><b>Realize™ Digital Resources:</b> <b>Energy Transfer: Energy</b> &gt;Topic Launch&gt;Quest Kickoff: How can you build a complex machine to do something simple? &gt;Topic Close&gt;Interactivity: Quest Findings: How can you build a complex machine to do something simple?</p>

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<b>E.6 Earth and Space Science</b>	
<b>DCI.E.6.8 Earth and the Universe</b>	
E.6.8.1 Obtain, evaluate, and summarize past and present theories and evidence to explain the formation and composition of the universe.	<p><b>Earth’s Place in the Universe SE/TE:</b> Solar System Formation, 58 The Universe, 86 The Scale of the Universe, 87 Math Toolbox, 87 Understanding the Universe, 88 Reading Check: Determine Central Ideas, 88 Extraordinary Science: Traveling Through the Milky Way 91 Topic Review and Assess, 92-93</p> <p><b>Realize™ Digital Resources:</b> <b>Earth’s Place in the Universe: Solar System and the Universe</b> &gt;Lesson 1, Solar System Objects&gt;Interactivity: How to Make a Solar System &gt;Lesson 4, Galaxies&gt;Video: The Big Bang Theory</p>
E.6.8.2 Use graphical displays or models to explain the hierarchical structure (stars, galaxies, galactic clusters) of the universe.	<p><b>Earth’s Place in the Universe SE/TE:</b> Comparing the Sun and Planets, 51 Smaller Solar System Objects, 52 Figure 7: The Solar System, 56-57 Case Study: Comparing Solar System Objects, 60 Size, 77 Galaxies, 85 Extraordinary Science: Traveling Through the Milky Way, 91 Evidence-Based Assessment, 94-95</p> <p><b>Realize™ Digital Resources:</b> <b>Earth’s Place in the Universe: Solar System and the Universe</b> &gt;Lesson 4, Galaxies&gt;Investigate Lab: Model the Milky Way;&gt;Interactivity: Model a Galaxy</p>



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E.6.8.3 Evaluate modern techniques used to explore our solar system's position in the universe.	<p><b>Earth's Place in the Universe SE/TE:</b>            Math Toolbox: Converting Units of Distance, 50            Optical Telescopes, 64            Other Telescopes, 64            Space Probes, 65            Data from Probes, 65            History of Space Exploration, 66-69            Lesson 2 Check, 70            Quest Check-In, 70            Topic Review and Assess, 92-93</p> <p><b>Realize™ Digital Resources:</b>  <b>Earth's Place in the Universe: Solar System and the Universe</b>            &gt;Lesson 2, Learning About the Universe&gt;Interactivity: Telescopes;&gt;Quest Check-In Lab: Anybody Out There?</p>
E.6.8.4 Obtain and evaluate information to model and compare the characteristics and movements of objects in the solar system (including planets, moons, asteroids, comets, and meteors).	<p><b>Earth's Place in the Universe SE/TE:</b>            Connect It!, 48            Understanding the Solar System, 49-52            Distances in the Solar System, 50            Comparing the Sun and Planets, 51            Smaller Solar System Objects, 52            Solar System Formation, 58            Case Study: Comparing Solar System Objects, 60-61            Evidence-Based Assessment, 94-95</p> <p><b>Realize™ Digital Resources:</b>  <b>Earth's Place in the Universe: Solar System and the Universe</b>            &gt;Lesson 1 Solar System Objects&gt;Inquiry Warm-Up Lab: Ring Around the Sun;&gt;Interactivity: Distance Learning;&gt;Investigate Lab: Pulling Planets;&gt;Interactivity: Solar System</p>

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<p>E.6.8.5 Construct explanations for how gravity affects the motion of objects in the solar system and tides on Earth.</p>	<p><b>Earth’s Place in the Universe SE/TE:</b>            Connect It!, 4            Quest Check-In, 13            Quest Check-In, 24            Connect It!, 26            The Moon and Sun, 32            Math Toolbox: High and Low Tides, 32            Spring and Neap Tides, 33            Quest Check-In, 34            Topic Review and Assess, 36-37            Evidence-Based Assessment, 94-95</p> <p><b>Realize™ Digital Resources:</b>  <b>Earth’s Place in the Universe: Earth-Sun-Moon System</b>            &gt;Topic Launch&gt;Quest Kickoff: How are tides related to our place in space?            &gt;Lesson 1, Movement in Space&gt;Quest Check-In Interactivity: Tides and Earth’s Motion            &gt;Lesson 2, Earth’s Movement in Space&gt;Quest Check-In Interactivity: Tides and the Moon’s Gravity            &gt;Lesson 3, Phases and Eclipses&gt;Quest Check-In Lab: The Moon’s Revolution and Tides            &gt;Topic Close&gt;Interactivity: Quest Findings: How are tides related to our place in space?  <b>Earth’s Place in the Universe: Solar System and the Universe</b>            &gt;Lesson 1 Solar System Objects&gt;Investigate Lab: Pulling Planets</p>

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<p>E.6.8.6 Design models representing motions within the Sun-Earth-Moon system to explain phenomena observed from the Earth's surface (positions of celestial bodies, day and year, moon phases, solar and lunar eclipses, and tides).</p>	<p><b>Earth's Place in the Universe SE/TE:</b>            Connect It!, 16            Rotation, 17            Revolution, 18            Design It!: Develop Models, 18            Lesson 2 Check, 24            Connect It!, 26            Phases of the Moon, 29-30            Model It!: Solar and Lunar Eclipses, 31            Eclipses, 31            Lesson 3 Check, 34            Topic Review and Assess, 36-37            uDemonstrate Lab: Modeling Lunar Phases, 40-43</p> <p><b>Realize™ Digital Resources:</b>  <b>Earth's Place in the Universe: Earth-Sun-Moon System</b>            &gt;Topic Launch&gt;Quest Kickoff: How are tides related to our place in space?            &gt;Lesson 1, Movement in Space&gt;Quest Check-In Interactivity: Tides and Earth's Motion            &gt;Lesson 2, Earth's Movement in Space&gt;Quest Check-In Interactivity: Tides and the Moon's Gravity            &gt;Lesson 3, Phases and Eclipses&gt;Quest Check-In Lab: The Moon's Revolution and Tides            &gt;Topic Close&gt;Interactivity: Quest Findings: How are tides related to our place in space?  <b>Earth's Place in the Universe: Solar System and the Universe</b>            &gt;Lesson 1 Solar System Objects&gt;Inquiry Warm-Up Lab: Ring Around the Sun;&gt;Interactivity: Solar System</p>
<p>E.6.8.7 Analyze and interpret data from the surface features of the Sun (e.g., photosphere, corona, sunspots, prominences, and solar flares) to predict how these features may affect Earth.</p>	<p><b>Earth's Place in the Universe SE/TE:</b>            The Sun's Atmosphere, 54            Model It!, 54            Sunspots, 55            Prominences, 55            Solar Flares, 55</p> <p><b>Cycles Influencing Weather and Climate SE/TE:</b>            Energy from the Sun, 63-66            Earth's Energy Budget, 65            The Greenhouse Effect, 66            uDemonstrate Lab: Not All Heating is Equal, 96-99</p> <p><b>Realize™ Digital Resources:</b>  <b>Earth's Place in the Universe: Solar System and the Universe</b>            &gt;Lesson 1 Solar System Objects&gt;uInvestigate Lab: Layers of the Sun;&gt;Interactivity: Anatomy of the Sun</p>