

**A Correlation of**  
**Virginia Elevate Science**  
**Grade 6 ©2021**



**To the**  
**Virginia Standards of Learning**  
**for Science 2010**  
**Grade 6**

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**Introduction**

The following document demonstrates how the **Virginia Elevate Science Grade 6 ©2021** program supports the 2010 Virginia Standards of Learning for Science. Correlation references include the Student Edition, Teacher Edition, and online Realize™ digital resources.

Savvas Learning Company is proud to introduce **Virginia Elevate Science, Grade 6** – 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>Scientific Investigation, Reasoning, and Logic</b>	
<b>(6.1) The student will demonstrate an understanding of scientific reasoning, logic, and the nature of science by planning and conducting investigations in which</b>	
(6.1.a) observations are made involving fine discrimination between similar objects and organisms;	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b>  uConnect Lab: What Is at the Center?, (Observations), 4-5  uConnect Lab: What Substances Will Dissolve in Water? (Observations), 224-225  uConnect Lab: How Does Gravity Affect Materials on a Slope? (Observations), 264-265  uDemonstrate Lab: An Ocean of a Problem (Data Table/Observations), 416-419  uDemonstrate Lab: To Drink or Not to Drink the Water (Data Table/Observations), 464-467  uConnect Lab: What's in a Piece of Coal? (Observations), 472-473  uDemonstrate Lab: To Drill or Not to Drill (Observations), 514-517</p>
(6.1.b) precise and approximate measurements are recorded;	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b>  uConnect Lab: Planetary Measures (Data), 50-51  uDemonstrate Lab: Scaling Down the Solar System (Data Table), 100-103  uDemonstrate Lab: Heating and Cooling Water and Sand (Data Tables), 256-259  uDemonstrate Lab: Materials on a Slope (Data Table), 310-313  uDemonstrate Lab: Water From Trees (Data Table), 370-373  uDemonstrate Lab: Washing Away (Data Table), 570-573</p>
(6.1.c) scale models are used to estimate distance, volume, and quantity;	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b>  uConnect Lab: Planetary Measures, 50-51  uDemonstrate Lab: Scaling Down the Solar System, 100-103</p> <p><b>Realize™ Digital Resources:</b>  <b>Topic 2: Solar System and the Universe</b>  &gt;Lesson 1: Solar System Objects&gt;uInvestigate Lab: Layers of the Sun</p>

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(6.1.d) hypotheses are stated in ways that identify the independent and dependent variables;	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b> uDemonstrate Lab: Heating and Cooling Water and Sand (Plan Your Investigation, #2), 256-259</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 4: Energy in the Atmosphere and Ocean</b> &gt;Lesson 3: Energy in Earth's Atmosphere&gt;uInvestigate Lab: Heating Earth's Surface <b>Topic 5: Survey of Chemistry</b> &gt;Lesson 2: Chemical Reactions&gt;Quest Check-In Lab: As the Stomach Churns</p>
(6.1.e) a method is devised to test the validity of predictions and inferences;	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b> uConnect Lab: Does a Plastic Bag Trap Heat? (Design a Procedure, #1), 166-167 uDemonstrate Lab: Not All Heating is Equal (Design and Plan Your Investigation, #3), 216-219 uDemonstrate Lab: Materials on a Slope (Design Your Procedure), 310-313 uDemonstrate Lab: Water From Trees (Plan Your Investigation, #3), 371 uDemonstrate Lab: An Ocean of a Problem (Design Your Experiment, #2, #4), 416-419 uDemonstrate Lab: Washing Away (Plan Your Investigation, #3), 570-573</p>
(6.1.f) one variable is manipulated over time, using many repeated trials;	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b> Plan It!: Salty Water, 245 uDemonstrate Lab: Materials on a Slope (Design Your Procedure), 310-313 uDemonstrate Lab: Water From Trees (Plan Your Investigation, #3), 371 uDemonstrate Lab: An Ocean of a Problem (Design Your Experiment, #2, #4), 416-419</p>

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(6.1.g) data are collected, recorded, analyzed, and reported using metric measurements and tools;	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b>  uConnect Lab: Planetary Measures (Data, Analyze and Interpret Data), 50-51  uDemonstrate Lab: Scaling Down the Solar System (Data Table, Analyze and Interpret Data), 100-103  uDemonstrate Lab: Not All Heating Is Equal (Data Table, Analyze and Interpret Data), 216-219  uDemonstrate Lab: Heating and Cooling Water and Sand (Data Tables, Analyze and Interpret Data), 256-259  uDemonstrate Lab: Materials on a Slope (Data Table, Analyze and Interpret Data), 310-313  uDemonstrate Lab: To Drink or Not to Drink the Water (Data Table/Observations, Analyze and Interpret Data), 464-467</p>
(6.1.h) data are analyzed and communicated through graphical representation;	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b>  Math Toolbox: Temperature in Earth’s Layers, 147  Math Toolbox: Comparing Weathered Limestone, 270  Math Toolbox: Sources of Oil Pollution, 561</p> <p><b>Realize™ Digital Resources:</b>  <b>Topic 5: Survey of Chemistry</b>  &gt;Lesson 3: The Properties of Water&gt;Quest Check-In Lab: States of Matter  <b>Topic 7: Weather in the Atmosphere</b>  &gt;Lesson 5: Severe Weather and Floods&gt;uInvestigate Lab: Predicting Hurricanes</p>

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(6.1.i) models and simulations are designed and used to illustrate and explain phenomena and systems; and	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b>  uConnect Lab; What Is at the Center?, 4-5  uDemonstrate Lab: Modeling Lunar Phases, 42-44  uConnect Lab: What Interactions Occur Within the Earth System?, 108-109  uDemonstrate Lab: Modeling a Watershed, 158-161  uDemonstrate Lab: To Drill or Not to Drill, 514-517</p> <p><b>Realize™ Digital Resources:</b>  <b>Topic 4: Energy in the Atmosphere and Ocean</b>  &gt;Lesson 5: Patterns of Circulation in the Ocean&gt;uInvestigate Lab: Modeling Ocean Current Formation</p>
(6.1.j) current applications are used to reinforce science concepts.	<p>This objective is met throughout <i>Virginia Elevate Science, Grade 6</i>. For examples, please see:</p> <p><b>SE/TE:</b>  uDemonstrate Lab: To Drink or Not to Drink the Water (Analyze and Interpret Data, #5), 464-467  uDemonstrate Lab: Materials on a Slope, 310-313  uDemonstrate Lab: Water From Trees, 371</p>
<b>Force, Motion, and Energy</b>	
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<b>(6.3) The student will investigate and understand the role of solar energy in driving most natural processes within the atmosphere, the hydrosphere, and on Earth’s surface.</b>	
(6.3.a) Earth’s energy budget;	<b>SE/TE:</b> Energy from the Sun, 183 Earth’s Energy Budget, 185 Methods of Heat Transfer, 188 Heat Transfer at Earth’s Surface, 189 Lesson 3 Check, #3, 190 Energy in the Atmosphere, 325-326
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(6.4.d) two or more atoms interact to form new substances, which are held together by electrical forces (bonds);	<p><b>SE/TE:</b> Molecules, 229 Lesson 1 Check, #6, 231 Topic 5 SOL Review, #3, 252</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 5: Survey of Chemistry</b> &gt;Lesson 1: Atoms, Elements, and Compounds&gt;Interactivity: Atoms and Molecules</p>
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<b>(6.5) The student will investigate and understand the unique properties and characteristics of water and its roles in the natural and human-made environment.</b>	
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(6.5.e) the importance of water for agriculture, power generation, and public health; and	<p><b>SE/TE:</b>            Connect It!, 130            uDemonstrate Lab: Modeling a Watershed, 158-161            Quest Kickoff: How can I determine the quality of a body of water in this watershed?, 422-423            Water is Important for Life, 427            Aquifers, 449            Math Toolbox: Uses of Water, 449            uDemonstrate Lab: To Drink or Not to Drink the Water, 464-467            Hydroelectric Resources, 487</p> <p><b>Realize™ Digital Resources:</b>  <b>Topic 9: Fresh Water</b>            &gt;Topic Launch: Fresh Water&gt;Quest Kickoff:            Determining Water Quality</p>
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<b>(6.6) The student will investigate and understand the properties of air and the structure and dynamics of Earth’s atmosphere.</b>	
(6.6.a) air as a mixture of gaseous elements and compounds;	<b>SE/TE:</b> Composition of the Atmosphere, 322 Math Toolbox: Graphing Atmospheric Composition, 322
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<b>Living Systems</b>	
<b>(6.7) The student will investigate and understand the natural processes and human interactions that affect watershed systems.</b>	
(6.7.a) the health of ecosystems and the abiotic factors of a watershed;	<p><b>SE/TE:</b> Watersheds, 134 uDemonstrate Lab: Modeling a Watershed, 159-161 uEngineer It!: I Wouldn't Drink That!, 433 Pollution of Watersheds, 437 Reading Check: Summarize, 439 Case Study: Nitrogen Pollution, 444-445</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 9: Fresh Water</b> &gt;Lesson 2: Surface Water&gt;Research Activity: Chesapeake Bay</p>
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(6.7.d) wetlands;	<p><b>SE/TE:</b> Versatile Wetlands, 455-456 The Importance of Wetlands, 457-458 Lesson 4 Check, #1, #2, #3, 459 Quest Check-In, 459 Topic 9 SOL Review, #18, #19, 461 Wetlands, 549</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 9: Fresh Water</b> &gt;Lesson 4: Wetland Environments&gt;Interactivity: Types of Wetlands;&gt;uInvestigate Lab: Wet or Dry?</p>
(6.7.e) estuaries;	<p><b>SE/TE:</b> Virginia Watersheds, 437 Case Study: Nitrogen Pollution, 444-445</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 9: Fresh Water</b> &gt;Lesson 2: Surface Water&gt;Research Activity: Chesapeake Bay</p>
(6.7.f) major conservation, health, and safety issues associated with watersheds; and	<p><b>SE/TE:</b> Pollution of Watersheds, 437 Watershed Conservation, 438 Figure 4: Chesapeake Bay, 438</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 9: Fresh Water</b> &gt;Lesson 2: Surface Water&gt;Interactivity: Watersheds</p>
(6.7.g) water monitoring and analysis using field equipment including hand-held technology.	<p><b>SE/TE:</b> Quest Kickoff: How can I determine the quality of a body of water in this watershed?, 422-423 Quest Check-In, 432 Quest Check-In, 443 Quest Check-In, 453 Topic 9 Evidence-Based Assessment, 462-463 Quest Findings, 463 uDemonstrate Lab: To Drink or Not to Drink the Water, 464-467</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 9: Fresh Water</b> &gt;Topic Launch: Fresh Water&gt;Quest Kickoff: Determining Water Quality</p>

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<b>Interrelationships in Earth/Space Systems</b>	
<b>(6.8) The student will investigate and understand the organization of the solar system and the interactions among the various bodies that comprise it.</b>	
(6.8.a) the sun, moon, Earth, other planets and their moons, dwarf planets, meteors, asteroids, and comets;	<p><b>SE/TE:</b> Understanding the Solar System, 53-56 Structure of the Sun, 57-58 Figure 7: The Solar System, 60-61 Lesson 1 Check, #4, 63</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 2: Solar System and the Universe</b> &gt;Lesson 1: Solar System Objects&gt;Interactivity: Distance Learning</p>
(6.8.b) relative size of and distance between planets;	<p><b>SE/TE:</b> uConnect Lab: Planetary Measures, 50-51 Distances in the Solar System, 54 Math Toolbox: Converting Units of Distance, 54 Figure 7: The Solar System, 60-61</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 2: Solar System and the Universe</b> &gt;Lesson 1: Solar System Objects&gt;Interactivity: Distance Learning</p>
(6.8.c) the role of gravity;	<p><b>SE/TE:</b> Gravity and Orbits, 23-25 Reading Check: Cite Textual Evidence, 25 Solar System Formation, 62 Lesson 1 Check, #5, 63 Topic 2 Evidence-Based Assessment, 98-99</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 1: Earth-Sun-Moon System</b> &gt;Lesson 2: Earth’s Movement in Space&gt;Interactivity: What Keeps Objects in Motion?</p> <p><b>Topic 2: Solar System and the Universe</b> &gt;Lesson 1: Solar System Objects&gt;uInvestigate Lab: Pulling Planets</p>
(6.8.d) revolution and rotation;	<p><b>SE/TE:</b> How Earth Moves, 19-20 Design It!, 20</p>

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(6.8.e) the mechanics of day and night and the phases of the moon;	<p><b>SE/TE:</b>            Rotation, 19            Lesson 2 Check, #2, 26            The Appearance of the Moon, 29-31            Reading Check: Translate Information, 31            Lesson 3 Check, #1, #2, 36            Topic 1 SOL Review, #16, #19, 39            uDemonstrate Lab: Modeling Lunar Phases, 42-45</p> <p><b>Realize™ Digital Resources:</b>  <b>Topic 1: Earth-Sun-Moon System</b>            &gt;Lesson 2: Earth’s Movement in Space&gt;Inquiry            Warm-Up Lab: Patterns: Day and Night            &gt;Lesson 3: Phases and Eclipses&gt;Interactivity: Our View of the Moon</p>
(6.8.f) the unique properties of Earth as a planet;	<p><b>SE/TE:</b>            Case Study: Earth is “Just Right” for Life, 64-65            The Water Cycle, 131            Earth’s Insulator, 321            Topic 7 SOL Review, #2, 366</p>
(6.8.g) the relationship of Earth’s tilt and the seasons;	<p><b>SE/TE:</b>            The Seasons, 21-22            Lesson 2 Check, #2, 26            Topic 1 SOL Review, #9, 38            Topic 1 Evidence-Based Assessment, 40-41</p> <p><b>Realize™ Digital Resources:</b>  <b>Topic 1: Earth-Sun-Moon System</b>            &gt;Lesson 2: Earth’s Movement in Space&gt;Interactivity: Seasons of Earth</p>
(6.8.h) the cause of tides; and	<p><b>SE/TE:</b>            Quest Kickoff: How are tides related to our place in space?, 2-3            Tides, 34-35            Reading Check: Summarize Text, 35            Lesson 3 Check, #5, 36</p> <p><b>Realize™ Digital Resources:</b>  <b>Topic 1: Earth-Sun-Moon System</b>            &gt;Topic Launch: Earth-Sun-Moon System&gt;Quest Kickoff: It’s as Sure as the Tides            &gt;Lesson 3: Phases and Eclipses&gt;Quest Check-In Lab: The Moon’s Revolution and Tides</p>

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(6.8.i) the history and technology of space exploration.	<p><b>SE/TE:</b> Optical Telescopes, 68 Other Telescopes, 68 Space Probes, 69 Data from Probes, 69 History of Space Exploration, 70-73 Lesson 2 Check, #2, #3, #4, 74</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 2: Solar System and the Universe</b> &gt;Lesson 2: Learning About the Universe&gt;Interactivity: Telescopes;&gt;Worksheet: Telescopes</p>
<b>Earth Resources</b>	
<b>(6.9) The student will investigate and understand public policy decisions relating to the environment.</b>	
(6.9.a) management of renewable resources;	<p><b>SE/TE:</b> Alternative Sources of Energy, 486-489 Lesson 2 Check, #4, 490 uEngineer It!: Micro-Hydro Power, 491 Human Impacts, 506-507 Design It!: Sustainable Fishing, 507 Topic 10 SOL Review, #17, 511 Balancing Needs, 530 Importance of Soil Management, 545 Desertification, 547 Sustainable Forest Management, 550-552 Reading Check: Draw Evidence, 552 Water as a Resource, 557 Reducing Water Pollution, 562-563</p> <p><b>Realize™ Digital Resources:</b> <b>Topic 10: Distribution of Natural Resources</b> &gt;Lesson 2: Renewable Energy Resources&gt;Interactivity: Renewable Resource Ranges</p>
(6.9.b) management of nonrenewable resources;	<p><b>SE/TE:</b> Fossil Fuels, 476-480 Nuclear Energy, 481 Plan It!: Household Energy Use, 482 Humans and Minerals, 498 Case Study: Phosphorus Fiasco, 500-501 Topic 10 SOL Review, #13, 511</p>

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(6.9.c) the mitigation of land-use and environmental hazards through preventive measures; and	<p><b>SE/TE:</b>            Quest Check-In, 432            Case Study: Nitrogen Pollution, 444-445            Reducing Fossil Fuel Usage, 485            Lesson 3 Check, #2, 499            Case Study: Phosphorus Fiasco, 500-501            Design It!: Sustainable Fishing, 507            Topic 10 SOL Review, #17, 511            Quest Kickoff: How can you help your school reduce its impact on Earth's systems?, 520-521            Balancing Needs, 530            Lesson 1 Check, #3, 531            Reducing Emissions, 538            Lesson 2 Check, #5, 540            Sustainable Forest Management, 550-552            Quest Check-In, 553            Reducing Water Pollution, 562-563</p> <p><b>Realize™ Digital Resources:</b>  <b>Topic 11: Human Impacts on the Environment</b>            &gt;Topic Launch: Human Impacts on the Environment&gt;Quest Kickoff: Trash Backlash            &gt;Lesson 2: Air Pollution&gt;Quest Check-In Lab: Trash versus Water            &gt;Lesson 4: Water Pollution&gt;Quest Check-In Lab: Reducing Waste</p>
(6.9.d) cost/benefit tradeoffs in conservation policies.	<p><b>SE/TE:</b>            Dealing with Climate Change, 408-409            Solar Energy, 486            Hydroelectric Resources, 487            Figure 3: Water Power, 487            Wind Energy, 488            Geothermal Energy, 489            Lesson 2 Check, #3, 490            Topic 10 SOL Review, #8, 510            Balancing Needs, 530            Figure 4: Harvesting Timber, 530</p>