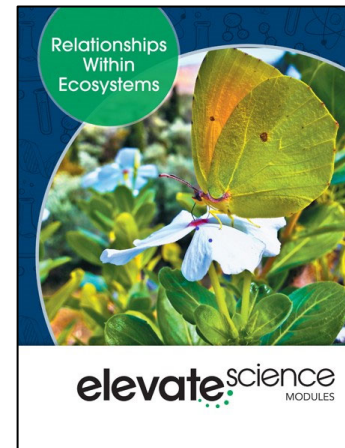
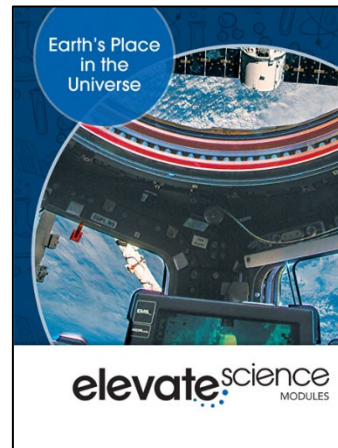


A Correlation of

elevateScience™
West Virginia Modules



To the

West Virginia
Course 6006 – Grade 6 Evaluation Criteria

PUBLISHER:	Savvas Learning Company, formerly Pearson K12 Learning		
SUBJECT:	Science	SPECIFIC GRADE:	6
COURSE:	6006 – Science, Grade 6	TITLE	elevateScience™ West Virginia Modules Package: Relationships Within Ecosystems Waves and Information Technologies Cycles Influencing Weather and Climate Earth’s Place in the Universe
COPYRIGHT:	2019		
SE ISBN:	9781418399610	TE ISBN:	9781418399641
URL for Online Resources:	www.SavvasRealize.com		
Teacher Demo Account Username:	WestVirginiaScience	Teacher Demo Account Password:	Savvas2022! (For state reviewer use only)
Student Demo Account Username:	WestVirginiaScience	Student Demo Account Password:	Savvas2022! (For state reviewer use only)

NON-NEGOTIABLE EVALUATION CRITERIA
2022-2028
Group IV – Science – Grade 6

Equity, Accessibility and Format – This section to be completed by the County Adoption Committee Evaluation Responses			
Yes	No	CRITERIA	NOTES – by County Adoption Committee
X		<p>1. INTER-ETHNIC The instructional resource meets the requirements of inter-ethnic concepts, content, and illustrations, as set by WV Board of Education Policy 2445.41.</p>	<p>The photographic, illustrative, and digital resources found throughout the Savvas elevateScience™ program show people of a variety of ages, and ethnicities participating in everyday and science-related activities. See representative examples from elevateScience™ module Cycles Influencing Weather and Climate pages 21, 37, 49, 115, 146, 147.</p>
X		<p>2. EQUAL OPPORTUNITY The instructional resource meets the requirements of equal opportunity: concepts, content, illustrations, heritage, roles, contributions, experiences and achievements of males and females in American and other cultures.</p>	<p>The instructional resources of the Savvas elevateScience™ program, including the Quest scientists and engineers, topic career features, lesson images and illustrations, highlight the contributions of specific people of varying genders and cultures to science. See representative example from elevateScience™ module Cycles Influencing Weather and Climate page 37.</p>

SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

X		<p>3. FORMAT The instructional resource includes an interactive electronic/digital component for students.</p>	<p>Yes, the instructional resources of the Savvas elevateScience™ program include both print, digital student text as well as fully interactives digital components like videos, interactives, simulations, virtual labs, and assessments. See SavvasRealize.com.</p>
X		<p>4. BIAS The instructional resource is free of political bias.</p>	<p>The instructional resources of the Savvas elevateScience™ program are free of political bias.</p>
X		<p>5. COMMON CORE The instructional resource does not reference Common Core academic standards. (WV Code §18-2E-1b-1)</p>	<p>The instructional resources of the Savvas elevateScience™ program do not reference Common Core academic standards.</p>
X		<p>6. INQUIRY This resource must include rigorous and developmentally appropriate active inquiry, investigations, and hands-on activities.</p>	<p>Yes, the instructional resources of the Savvas elevateScience™ program include a variety of rigorous and developmentally appropriate inquiry investigations, hands-on labs, interactive digital activities. Four types of inquiry and engineering investigations can be found in every topic. Look for the <i>uConnect</i>, <i>uInvestigate</i>, <i>uEngineer It!</i>, <i>uDemonstrate</i> in each topic in any module on the Savvas Realize platform. See representative examples from elevateScience™ module Cycles Influencing Weather and Climate pages 3A-B, 9, 13, 14, 21, 2, 25, 30, 38, 54-55, 61A-B, 67, 72, 79, 81.</p>
X		<p>7. SAFETY This resource must include explicit guidance for demonstrating the safe and proper techniques for handling, manipulating, and caring for developmentally appropriate science materials and treating living organisms ethically.</p>	<p>Yes, the Savvas elevateScience™ program contains explicit explanations and guidance of safety procedures and techniques in the investigation notes. Additional safety information may be found within our information on our equipment materials kits on the digital Realize platform. See representative example from elevateScience™ module Cycles Influencing Weather and Climate Appendix A, B, C pages 156-159.</p>

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GENERAL EVALUATION CRITERIA

**2022-2028
Group IV – Science**

Grade 6

The general evaluation criteria apply to each grade level and are to be evaluated for each grade level unless otherwise specified. These criteria consist of information critical to the development of all grade levels. In reading the general evaluation criteria and subsequent specific grade level criteria, e.g. means “examples of”. Eighty percent of the general and eighty percent of the specific criteria must be met with I (In-depth) or A (Adequate) in order to be recommended.

(Vendor/Publisher) SPECIFIC LOCATION OF CONTENT WITHIN PRODUCT	(IRR Committee) Responses										
	I=In-depth	A=Adequate	M=Minimal	N=Nonexistent	I		A		M		N
	In addition to alignment of West Virginia College- and Career-Readiness Standards (WVCCRS) for Science, instructional resources must also include opportunities for students to develop:										
College- and Career-Readiness Skills											
Thinking and Problem-Solving Skills <i>Science Content:</i>											

SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies SE/TE: uDemonstrate Lab: Making Waves, 58-61</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: Not All Heating Is Equal, 96-99</p> <p>Earth's Place in the Universe SE/TE: uDemonstrate Lab STEM: Scaling Down the Solar System, 96-99</p> <p>Relationships Within Ecosystems SE/TE: uDemonstrate Lab: Cycling Energy and Matter, 28-31 uDemonstrate Lab: Changes in an Ecosystem, 124-127</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Energy in the Atmosphere and Ocean >Lesson 1: Energy in Earth's Atmosphere>uInvestigate Lab: Heating Earth's Surface Earth's Place in the Universe: Solar System and the Universe >Lesson 2: Learning About the Universe>uInvestigate Lab: Space Exploration Vehicle Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 3: Biodiversity>Quest Check-In Lab: Design and Model a Crossing</p>	<p>1. provides opportunities for student collaboration.</p>	<p>X</p>						
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies SE/TE: Quest Kickoff: How can you design a system to stop a thief?, 2-3 Quest Kickoff: What is the best way to record sound for my scenario?, 64-65</p> <p>Cycles Influencing Weather and Climate SE/TE: Quest Kickoff: How can you prepare for severe weather?, 2-3</p> <p>Earth's Place in the Universe SE/TE: Quest Kickoff: How do we look for things that can't be seen?, 46-47</p> <p>Relationships Within Ecosystems SE/TE: Quest Kickoff: What is causing the organisms in the greenhouse to fail?, 2-3</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Energy in the Atmosphere and Ocean >Topic Launch: Energy in the Atmosphere and Ocean>Quest Kickoff: Crossing the Atlantic Relationships Within Ecosystems: Ecosystems >Topic Launch: Ecosystems>Quest Kickoff: Mystery at Pleasant Pond Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Topic Launch: Populations, Communities, and Ecosystems>Quest Kickoff: To Cross or Not to Cross</p>	<p>2. provides opportunities for students to investigate and discover multiple solutions through inquiry.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies SE/TE: Topic 2 Evidence-Based Assessment, 100-101 uDemonstrate Lab: Over and Out, 102-105</p> <p>Earth's Place in the Universe SE/TE: Collecting Space Data, 63-65 uEngineer It!: Blast Off!, 71</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Lesson 2: Signals>uInvestigate Lab: Constructing a Simple Computer Circuit Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 4: Predicting Weather Changes>uInvestigate Lab: Tracking Weather</p>	<p>3. includes options for using technology tools to gather information, make informed decisions, and justify solutions.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations:</p> <p>Waves and Information Technologies SE/TE: Quest Kickoff: How can you design a system to stop a thief?, 2-3</p> <p>Cycles Influencing Weather and Climate SE/TE: Case Study: The Case of the Runaway Hurricane, 48-49 Case Study: The Carbon Cycle, 124-125</p> <p>Relationships Within Ecosystems SE/TE: Case Study: Florida’s Vital Seagrass in Peril, 14-15 Case Study: The Case of the Disappearing Cerulean Warbler, 44-45</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Climate >Lesson 2: Climate Change>Quest Check-In Lab: Energy Savings at School >Lesson 3: Effects of a Changing Climate>Interactivity: Emission Reduction Relationships Within Ecosystems: Ecosystems >Lesson 2: Energy Flow in Ecosystems>uEngineer It! Interactivity: Cleaning an Oil Spill</p>	<p>4. engages students in critical thinking and the synthesis of information to analyze real-world problems.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Cycles Influencing Weather and Climate SE/TE: Quest Kickoff: What is the most efficient way for a container ship to cross the Atlantic?, 60-61 Topic 3 Evidence-Based Assessment, 138-139 uDemonstrate Lab: An Ocean of a Problem, 140-143</p> <p>Relationships Within Ecosystems SE/TE: Quest Kickoff: What is causing the organisms in the greenhouse to fail?, 2-3 Quest Kickoff: What do you think is causing Pleasant Pond to turn green?, 34-35</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 5: Light>Quest Check-In Lab: An Optimal Optical Solution: Design to Stop a Thief Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 5: Severe Weather and Floods>uInvestigate Lab: Predicting Hurricanes Relationships Within Ecosystems: Ecosystems >Lesson 1: Living Things and the Environment>Interactivity: An Ecological Mystery</p>	<p>5. offers activities to connect multiple scientific phenomena to real-world events.</p>	<p>X</p>					
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Information and Communication Skills

For student mastery of college- and career-readiness standards, the instructional resources will include multiple strategies that provide students with opportunities to:

<p>Representative Citations: For supporting content, please see: Waves and Information Technologies TE Only: Professional Development, 16</p> <p>Cycles Influencing Weather and Climate TE Only: Professional Development, 116 Professional Development, 130</p> <p>Earth’s Place in the Universe TE Only: Professional Development, 2 Professional Development, 54</p> <p>Relationships Within Ecosystems TE Only: Professional Development, 10 Professional Development, 104</p> <p>Realize™ Digital Resources: Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 2: Dynamic and Resilient Ecosystems>Quest Check-In Interactivity: Community Opinions</p>	<p>6. interact with secure external multimedia resources for local and global collaboration.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies SE/TE: My Discovery, 97</p> <p>Cycles Influencing Weather and Climate SE/TE: My Discovery, 71 My Discovery, 113</p> <p>Earth's Place in the Universe SE/TE: My Discovery, 91</p> <p>Relationships Within Ecosystems SE/TE: My Discovery, 65</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 4: Predicting Weather Changes>Investigate Lab: Tracking Weather Relationships Within Ecosystems: Ecosystems >Lesson 1: Living Things and the Environment>Investigate Lab: Modeling a Dam Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 1: Interactions in Ecosystems>Quest Check-In Interactivity: Research Animal Crossings</p>	<p>7. develop conceptual understanding and research skills.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies SE/TE: Quest Findings: Complete the Quest!, 101</p> <p>Cycles Influencing Weather and Climate SE/TE: Quest Findings: Complete the Quest!, 95</p> <p>Earth's Place in the Universe SE/TE: Quest Findings: Complete the Quest!, 95 TE Only: Differentiated Instruction, 67</p> <p>Relationships Within Ecosystems SE/TE: Quest Findings: Complete the Quest!, 123</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Weather in the Atmosphere >Topic Close: Weather in the Atmosphere>Quest Findings: Reflect on Your PSA Cycles Influencing Weather and Climate: Climate >Topic Close: Climate>Quest Findings: Reflect on Shrinking Your Carbon Footprint Relationships Within Ecosystems: Ecosystems >Topic Close: Ecosystems>Quest Findings: Reflections on a Pond</p>	<p>8. articulate thoughts and ideas through oral, written, and multimedia communications.</p>	<p>X</p>						
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<p>Representative Citations: Waves and Information Technologies SE/TE: Topic 2 Evidence-Based Assessment, 100-101</p> <p>Cycles Influencing Weather and Climate SE/TE: Math Toolbox: Windchill Factor, 74</p> <p>Earth's Place in the Universe SE/TE: Two Types of Eclipses, Figure 4, 30 Math Toolbox: High and Low Tides, 32</p> <p>Relationships Within Ecosystems SE/TE: Topic 3 Evidence-Based Assessment, 122-123</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 5: Severe Weather and Floods> Investigate Lab: Predicting Hurricanes Earth's Place in the Universe: Earth-Sun-Moon System >Lesson 3: Phases and Eclipses> Interactivity: Moon Phases and Eclipses;> Quest Check-In Lab: The Moon's Revolution and Tides</p>	<p>9. analyze and interpret visually expressed information (e.g., flowchart, diagram, model, graph, table, or digital mapping technology).</p>	<p>X</p>					
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Personal and Workplace Productivity Skills

For student mastery of college- and career-readiness standards, the instructional resources will provide students with opportunities to:

<p>Representative Citations: Waves and Information Technologies SE/TE: uDemonstrate Lab: Making Waves, 58-61</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: Water From Trees, 54-57</p> <p>Earth’s Place in the Universe SE/TE: uDemonstrate Lab: Modeling Lunar Phases, 40-43 uDemonstrate Lab STEM: Scaling Down the Solar System, 96-99</p> <p>Relationships Within Ecosystems SE/TE: uDemonstrate Lab: Last Remains, 70-73</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Lesson 1: Electric Circuits>Quest Check-In Lab: Constructing a Microphone</p>	<p>10. use interpersonal skills to work cooperatively to accomplish a task.</p>	<p>X</p>						
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<p>Representative Citations: Waves and Information Technologies SE/TE: uDemonstrate Lab: Making Waves, 58-61</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: Not All Heating Is Equal, 96-99 uDemonstrate Lab: An Ocean of a Problem, 140-143</p> <p>Earth's Place in the Universe SE/TE: uDemonstrate Lab: Modeling Lunar Phases, 40-43</p> <p>Relationships Within Ecosystems SE/TE: Quest Findings: Complete the Quest!, 27</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Energy in the Atmosphere and Ocean >Lesson 1: Energy in Earth's Atmosphere>uInvestigate Lab: Heating Earth's Surface Relationships Within Ecosystems: Cell Processes >Topic Close: Cell Processes>uDemonstrate Lab: Cycling Energy and Matter Relationships Within Ecosystems: Ecosystems >Topic Close: Ecosystems>uDemonstrate Lab: Last Remains</p>	<p>11. develop and initiate a plan of action to complete a task or project.</p>	<p>X</p>					
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<p>Representative Citations: For related content, please see: Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: An Ocean of a Problem, 140-143 TE Only: Professional Development, 120</p> <p>Earth's Place in the Universe TE Only: Differentiated Instruction, 19 Teach with Movement, 38 Professional Development, 96</p> <p>Relationships Within Ecosystems TE Only: Teach with Movement, 115</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 1: Wave Properties>uInvestigate Lab: Waves and Their Characteristics >Lesson 3: Sound Waves>uInvestigate Lab: Understanding Sound</p>	<p>12. practice time- and project-management skills.</p>		<p>X</p>			
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies SE/TE: Quest Findings: Complete the Quest!, 57</p> <p>Cycles Influencing Weather and Climate SE/TE: Quest Findings: Complete the Quest!, 139</p> <p>Earth’s Place in the Universe SE/TE: Quest Findings: Complete the Quest!, 39</p> <p>Relationships Within Ecosystems SE/TE: Quest Findings: Complete the Quest!, 69 Quest Findings: Complete the Quest!, 123</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Topic Close: Information Technologies>Quest Findings: Reflect on Your Recording Method Cycles Influencing Weather and Climate: Energy in the Atmosphere and Ocean >Topic Close: Energy in the Atmosphere and Ocean>Quest Findings: Reflect on Crossing the Atlantic Earth’s Place in the Universe: Solar System and the Universe >Topic Close: Solar System and the Universe>Quest Findings: Reflect on Searching for a Star</p>	<p>13. reflect upon and evaluate the results of a task or project.</p>	<p>X</p>						
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations:</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: An Ocean of a Problem, 140-143 TE Only: Professional Development, 120</p> <p>Earth's Place in the Universe TE Only: Differentiated Instruction, 19 Teach with Movement, 38 Professional Development, 96</p> <p>Relationships Within Ecosystems TE Only: Teach with Movement, 115</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 1: Wave Properties>uInvestigate Lab: Waves and Their Characteristics >Lesson 3: Sound Waves>uInvestigate Lab: Understanding Sound</p>	<p>14. assume various roles and responsibilities when working independently or as a group.</p>	<p>X</p>						
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<p>Representative Citations: Waves and Information Technologies SE/TE: Careers: Lighting Designer, 43</p> <p>Cycles Influencing Weather and Climate SE/TE: Careers: Meteorologist, 37</p> <p>Earth’s Place in the Universe TE Only: College and Career Readiness, 46</p> <p>Relationships Within Ecosystems SE/TE: Careers: Field Biologist, 95 TE Only: College and Career Readiness, 106</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Lesson 3: Communication and Technology>Career Video: Network Administrator Earth’s Place in the Universe: Earth-Sun- Moon System >Lesson 3: Phases and Eclipses>Career Video: Planetarium Technician Earth’s Place in the Universe: Solar System and the Universe >Lesson 2: Learning About the Universe>Career Video: Astrophysicist</p>	<p>15. explore science-related careers.</p>	<p>X</p>					
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<p>Representative Citations:</p> <p>Waves and Information Technologies SE/TE: My Discovery, 97</p> <p>Cycles Influencing Weather and Climate SE/TE: My Discovery, 113 TE Only: Differentiated Instruction, 107</p> <p>Earth's Place in the Universe SE/TE: My Discovery, 91</p> <p>Relationships Within Ecosystems SE/TE: Literacy Connection: Write Arguments, 116</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Lesson 3: Communication and Technology>Quest Check-In Interactivity: Evaluate Recording Technologies Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 4: Predicting Weather Changes>Investigate Lab: Tracking Weather >Lesson 5: Severe Weather and Floods>Quest Check-In Lab: A History of Hazardous Weather</p>	<p>16. conduct research, validate sources, and report findings in an ethical manner.</p>	<p>X</p>						
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<p>Representative Citations:</p> <p>Waves and Information Technologies SE/TE: Topic 1 Evidence-Based Assessment, 56-57</p> <p>Cycles Influencing Weather and Climate SE/TE: Topic 2 Evidence-Based Assessment, 94-95</p> <p>Earth’s Place in the Universe SE/TE: uDemonstrate Lab: Modeling Lunar Phases, 40-43</p> <p>Relationships Within Ecosystems SE/TE: Topic 1 Evidence-Based Assessment, 26-27 Topic 2 Evidence-Based Assessment, 68-69</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Topic Close: Waves and Electromagnetic Radiation>uDemonstrate Lab: Making Waves Cycles Influencing Weather and Climate: Weather in the Atmosphere >Topic Close: Weather in the Atmosphere>uDemonstrate Lab; Water From Trees Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Topic Close: Populations, Communities, and Ecosystems>uDemonstrate Lab: Changes in an Ecosystem</p>	<p>17. demonstrate mastery through multiple efforts.</p>	<p>X</p>					
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Developmentally Appropriate Instructional Resources and Strategies

For student mastery of college- and career-readiness standards, the instructional resources:

<p>Representative Citations: Waves and Information Technologies TE Only: Differentiated Instruction, 79 ELD Support, 89</p> <p>Cycles Influencing Weather and Climate TE Only: Differentiated Instruction, 109</p> <p>Earth’s Place in the Universe TE Only: ELD Support, 5</p> <p>Relationships Within Ecosystems TE Only: Differentiated Instruction, 91</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 4: Electromagnetic Waves>Enrichment: Space Radiation Cycles Influencing Weather and Climate: Climate >Lesson 3: Effects of a Changing Climate>Enrichment: Cooling Things Off Relationships Within Ecosystems: Ecosystems >Lesson 3: Cycles of Matter>Enrichment: Carbon and the Ocean</p>	<p>18. include multiple research-based strategies for differentiation, intervention, and enrichment to support all learners.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies TE Only: Spark a Discussion, 92</p> <p>Cycles Influencing Weather and Climate SE/TE: Reading Check: Integrate With Visuals, 109 TE Only: Teach with Movement, 110</p> <p>Earth’s Place in the Universe TE Only: Teach with Movement, 38</p> <p>Relationships Within Ecosystems SE/TE: Literacy Connection: Write Arguments, 116</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 2: Wave Interactions>Investigate Lab: Standing Waves and Wave Interference Earth’s Place in the Universe: Earth-Sun-Moon System >Lesson 3: Phases and Eclipses>Quest Check-In Lab: The Moon’s Revolution and Tides Relationships Within Ecosystems: Ecosystems >Topic Close: Ecosystems>Quest Findings: Reflections on a Pond</p>	<p>19. provide multiple opportunities for incorporating various learning modalities.</p>	<p>X</p>					
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<p>Representative Citations: Waves and Information Technologies SE/TE: Topic 2 Evidence-Based Assessment, 100-101</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: Not All Heating Is Equal, 96-99 Topic 3 Evidence-Based Assessment, 138-139</p> <p>Relationships Within Ecosystems SE/TE: Topic 3 Evidence-Based Assessment, 122-123 uDemonstrate Lab: Changes in an Ecosystem, 124-127</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 4: Predicting Weather Changes>uInvestigate Lab: Tracking Weather >Lesson 5: Severe Weather and Floods>Quest Check-In Lab: A History of Hazardous Weather Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 2: Dynamic and Resilient Ecosystems>Interactivity: A Butterfly Mystery</p>	<p>20. cultivate investigative skills to lead students to form logical conclusions.</p>	<p>X</p>					
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<p>Representative Citations:</p> <p>Waves and Information Technologies TE Only: Differentiated Instruction, 7</p> <p>Cycles Influencing Weather and Climate TE Only: Professional Development, 24</p> <p>Earth’s Place in the Universe TE Only: Differentiated Instruction, 45</p> <p>Relationships Within Ecosystems TE Only: Differentiated Instruction, 81 Differentiated Instruction, 101</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Lesson 1: Electric Circuits>ulInvestigate Lab: Electric Current and Voltage Earth’s Place in the Universe: Solar System and the Universe >Lesson 4: Galaxies>ulInvestigate Lab: Model the Milky Way Relationships Within Ecosystems: Ecosystems >Lesson 3: Cycles of Matter>ulInvestigate Lab: Following Water</p>	<p>21. incorporate authentic scientific vocabulary and technical terminology.</p>	<p>X</p>					
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<p>Representative Citations: Waves and Information Technologies SE/TE: Appendix A: Safety Symbols, 118</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: Water From Trees, 54-57 uDemonstrate Lab: Not All Heating Is Equal, 96-99</p> <p>Earth's Place in the Universe SE/TE: uDemonstrate Lab: Modeling Lunar Phases, 40-43</p> <p>Relationships Within Ecosystems SE/TE: uDemonstrate Lab: Cycling Energy and Matter, 28-31</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Lesson 2: Signals>uInvestigate Lab: Constructing a Simple Computer Circuit Relationships Within Ecosystems: Cell Processes >Lesson 1: Photosynthesis>uInvestigate Lab: Energy From the Sun >Lesson 2: Cellular Respiration>uInvestigate Lab: Exhaling Carbon Dioxide</p>	<p>22. integrate laboratory safety practices within learning experiences.</p>	<p>X</p>					
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Life Skills					
<i>For student mastery of college- and career-readiness standards, the instructional resources will provide students with opportunities to:</i>					
<p>Representative Citations: Waves and Information Technologies SE/TE: Quest Findings: Complete the Quest!, 101</p> <p>Cycles Influencing Weather and Climate SE/TE: Quest Findings: Complete the Quest!, 95 Quest Findings: Complete the Quest!, 139</p> <p>Earth's Place in the Universe SE/TE: Quest Findings: Complete the Quest!, 39</p> <p>Relationships Within Ecosystems SE/TE: Quest Findings: Complete the Quest!, 69</p> <p>Realize™ Digital Resources: Earth's Place in the Universe: Solar System and the Universe >Topic Close: Solar System and the Universe>Quest Findings: Reflect on Searching for a Star Relationships Within Ecosystems: Cell Processes >Topic Close: Cell Processes>Quest Findings: Reflect on the Problem in the Greenhouse Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 3: Biodiversity>Quest Check-In Lab: Design and Model a Crossing</p>	<p>23. persevere to complete a task and generate high quality work.</p>	<p>X</p>			

SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Cycles Influencing Weather and Climate TE Only: Spark a Discussion, 119 Professional Development, 130</p> <p>Realize™ Digital Resources: Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 2: Dynamic and Resilient Ecosystems>Quest Check-In Interactivity: Community Opinions</p>	<p>24. be exposed to and be respectful of varying viewpoints and positions of scientific issues.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations:</p> <p>Waves and Information Technologies SE/TE: uEngineer It!: A Life-Saving Mistake, 75</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: An Ocean of a Problem, 140-143</p> <p>Earth’s Place in the Universe SE/TE: uDemonstrate Lab: Modeling Lunar Phases, 40-43</p> <p>Relationships Within Ecosystems SE/TE: uEngineer It!: Engineering Artificial Photosynthesis, 13 uDemonstrate Lab: Cycling Energy and Matter, 28-31</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 2: Wave Interactions>uInvestigate Lab: Standing Waves and Wave Interference Cycles Influencing Weather and Climate: Energy in the Atmosphere and Ocean >Lesson 1: Energy in Earth’s Atmosphere>uInvestigate Lab: Heating Earth’s Surface >Lesson 3: Patterns of Circulation in the Ocean>uInvestigate Lab: Modeling Ocean Current Formation</p>	<p>25. engage in hands-on activities to promote the understanding of science content.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations:</p> <p>Waves and Information Technologies SE/TE: uDemonstrate Lab: Making Waves, 58-61</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: Water From Trees, 54-57 uDemonstrate Lab: An Ocean of a Problem, 140-143</p> <p>Earth's Place in the Universe SE/TE: uDemonstrate Lab: Modeling Lunar Phases, 40-43</p> <p>Relationships Within Ecosystems SE/TE: uDemonstrate Lab: Changes in an Ecosystem, 124-127</p> <p>Realize™ Digital Resources: Earth's Place in the Universe: Solar System and the Universe >Lesson 1: Solar System Objects>uInvestigate Lab: Pulling Planets >Lesson 3: Stars>uInvestigate Lab: How Far Is That Star? >Lesson 4: Galaxies>uInvestigate Lab: Model the Milky Way</p>	<p>26. investigate the natural world and universe.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies SE/TE: Quest Findings: Complete the Quest!, 101</p> <p>Cycles Influencing Weather and Climate TE Only: Professional Development, 24 Spark a Discussion, 119 Professional Development, 130</p> <p>Relationships Within Ecosystems TE Only: Spark a Discussion, 105</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Topic Close: Information Technologies>Quest Findings: Reflect On Your Recording Method Cycles Influencing Weather and Climate: Energy in the Atmosphere and Ocean >Topic Close: Energy in the Atmosphere and Ocean>Quest Findings: Reflect on Crossing the Atlantic Relationships Within Ecosystems: Ecosystems >Topic Close: Ecosystems>Quest Findings: Reflections on a Pond</p>	<p>27. practice situational language (e.g., presentations, debates, speeches, collaborative discussions, social media) in real-world activities.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Cycles Influencing Weather and Climate SE/TE: Connect It!, 126 Impact of Rising Temperatures, 127-130 Write About It, 130 uDemonstrate Lab: An Ocean of a Problem, 140-143</p> <p>Relationships Within Ecosystems SE/TE: Human Impact, 103-106</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Climate >Lesson 3: Effects of a Changing Climate>Interactivity: Methane Management;>Interactivity: Emission Reduction Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 3: Biodiversity>Interactivity: Human Impacts on Biodiversity</p>	<p>28. understand the impact of global issues and events on their lives, communities, and greater society.</p>	<p>X</p>					
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SE = Student Edition; TE = Teacher Edition, Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Waves and Information Technologies SE/TE: Appendix A: Safety Symbols, 118</p> <p>Cycles Influencing Weather and Climate SE/TE: uDemonstrate Lab: Water From Trees, 54-57 uDemonstrate Lab: Not All Heating Is Equal, 96-99</p> <p>Earth's Place in the Universe SE/TE: uDemonstrate Lab: Modeling Lunar Phases, 40-43</p> <p>Relationships Within Ecosystems SE/TE: uDemonstrate Lab: Cycling Energy and Matter, 28-31</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Lesson 1: Electric Circuits>Quest Check-In Lab: Constructing a Microphone >Lesson 2: Signals>uInvestigate Lab: Constructing a Simple Computer Circuit Relationships Within Ecosystems: Cell Processes >Lesson 2: Cellular Respiration>uInvestigate Lab: Exhaling Carbon Dioxide</p>	<p>29. use laboratory equipment properly.</p>	<p>X</p>					
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Assessment*The instructional resources provide:*

<p>Representative Citations: Waves and Information Technologies SE/TE: Lesson 2 Check, 22 Topic 1 Review and Assess, 54-55 Topic 1 Evidence-Based Assessment, 56-57</p> <p>Earth's Place in the Universe SE/TE: Lesson 4 Check, 90 Topic 2 Review and Assess, 92-93</p> <p>Realize™ Digital Resources: Earth's Place in the Universe: Earth-Sun-Moon System >Lesson 1: Movement in Space>Quiz: Movement in Space >Lesson 2: Earth's Movement in Space>Quiz: Earth's Movement in Space >Topic Close: Earth-Sun-Moon System>Test: Earth-Sun-Moon System</p>	<p>30. ongoing diagnostic formative and summative assessments.</p>	<p>X</p>					
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<p>Representative Citations:</p> <p>Waves and Information Technologies SE/TE: Topic 2 Evidence-Based Assessment, 100-101 uDemonstrate Lab: Over and Out, 102-105</p> <p>Cycles Influencing Weather and Climate SE/TE: Topic 2 Review and Assess, 92-93</p> <p>Earth’s Place in the Universe SE/TE: Lesson 1 Check, 59</p> <p>Relationships Within Ecosystems SE/TE: Topic 1 Evidence-Based Assessment, 26-27</p> <p>Realize™ Digital Resources: Earth’s Place in the Universe: Solar System and the Universe >Lesson 4: Galaxies>Quiz: Galaxies >Topic Close: Solar System and the Universe>uDemonstrate Lab: Scaling Down the Solar System;>Test: Solar System and the Universe</p>	<p>31. a variety of assessment formats, including performance tasks as well as multimedia simulations, portfolio evaluations, and data-dependent and open-ended questions.</p>	<p>X</p>					
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<p>Representative Citations: Waves and Information Technologies TE Only: Scoring Notes, 61 Scoring Notes, 105</p> <p>Cycles Influencing Weather and Climate TE Only: Scoring Notes, 99</p> <p>Earth’s Place in the Universe TE Only: Scoring Notes, 99</p> <p>Relationships Within Ecosystems TE Only: Scoring Notes, 31</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Weather in the Atmosphere >Topic Launch: Weather in the Atmosphere>Quest Rubric: Preparing a Plan Earth’s Place in the Universe: Earth-Sun-Moon System >Topic Launch: Earth-Sun-Moon System>Quest Rubric: It’s as Sure as the Tides Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Topic Launch: Populations, Communities, and Ecosystems>Quest Rubric: To Cross or Not to Cross</p>	<p>32. rubrics wherein all learners demonstrate progress toward mastery.</p>	<p>X</p>					
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Organization, Presentation and Format

The instructional resources:

Representative Citations:

Relationships Within Ecosystems

SE/TE:

Table of Contents, vi-vii

Quest Kickoff: What is causing the organisms in the greenhouse to fail?, 2-3

Quest Check-In, 12

Quest Findings: Complete the Quest!, 27

TE Only:

Pacing Guide, T24

Realize™ Digital Resources:

Relationships Within Ecosystems: Cell Processes

>Topic Launch: Cell Processes>uConnect Lab:

Where Does the Energy Come From?

>Lesson 1: Photosynthesis>Quest Check-In

Interactivity: Photosynthesis in the Greenhouse

>Lesson 2: Cellular Respiration>Quest Check-In

Interactivity: Respiration in the Greenhouse

33. are organized in logical sequence to optimize instructional effectiveness and efficiency.

X

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<p>Representative Citations: Cycles Influencing Weather and Climate SE/TE: Learning from Weather Maps, 34-35</p> <p>Earth's Place in the Universe SE/TE: Quest Kickoff: How are tides related to our place in space?, 2-3 Case Study: The Ptolemaic Model: Explaining the Unexplained, 14-15 Case Study: Comparing Solar System Objects, 60-61</p> <p>Relationships Within Ecosystems SE/TE: Extraordinary Science: An Appetite for Plastic?, 65</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Lesson 2: Signals>Investigate Lab: Constructing a Simple Computer Circuit Earth's Place in the Universe: Solar System and the Universe >Lesson 1: Solar System Objects>Investigate Lab: Layers of the Sun Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 4: Predicting Weather Changes>Investigate Lab: Tracking Weather</p>	<p>34. connect common themes across multiple science disciplines.</p>	<p>X</p>					
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<p>Representative Citations: Waves and Information Technologies TE Only: Professional Development, 46 Professional Development, 86</p> <p>Earth's Place in the Universe SE/TE: It's All Connected: Tracking Time in the Sky, 25 TE Only: Professional Development, 18</p> <p>Relationships Within Ecosystems SE/TE: It's All Connected: Too Much of a Good Thing, 23</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 3: Sound Waves>Enrichment: Violins and Sound Waves and Information Technologies: Information Technologies >Topic Launch: Information Technologies>Quest Kickoff: Testing, Testing... 1, 2, 3 >Lesson 3: Communication and Technology>Investigate Lab: Let the Music Play</p>	<p>35. integrate cross-curricular connections.</p>	<p>X</p>					
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<p>Representative Citations: Waves and Information Technologies TE Only: Professional Development, 18 Professional Development, 38</p> <p>Cycles Influencing Weather and Climate TE Only: Professional Development, 6 Professional Development, 24</p> <p>Earth's Place in the Universe TE Only: Professional Development, 54 Professional Development, 78</p> <p>Relationships Within Ecosystems TE Only: Professional Development, 6 Professional Development, 112</p>	<p>36. provide educators necessary science content knowledge, pedagogy, and management techniques to guide learning experiences.</p>	<p>X</p>					
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SPECIFIC EVALUATION CRITERIA

2022-2028
Group IV – Science
CCR Grade 6

Science - Grade 6

All West Virginia teachers are responsible for classroom instruction that integrates content standards, foundational skills, literacy, learning skills, computer science and technology tools. Students in grades 6 - 8 will advance through a developmentally appropriate progression of standards. The following chart represents the College- and Career-Readiness Indicators for Science that will be developed in grades 6 - 8.

College- and Career-Readiness Indicators for Science	
Grades 6 - 8	
Nature of Science	
<ul style="list-style-type: none"> Scientific knowledge is simultaneously reliable and subject to change based on empirical evidence and interpretation. Scientific knowledge is obtained through a combination of observations of the natural world and inferences based on those observations. Science is a creative human endeavor which is influenced by social and cultural biases. A primary goal of science is the formation of theories and laws. Theories are inferred explanations of some aspect of the natural world based on successfully tested information from evidence and evaluated phenomena. Laws describe relationships among what has been observed in the natural world. Scientific investigations use a variety of methods to address questions about the natural and material world. 	
Practices of Scientists and Engineers	Science Connecting Concepts
<ul style="list-style-type: none"> Asking questions and defining problems Developing and using models Planning and carrying out investigations Analyzing and interpreting data Using mathematical and computational thinking Constructing explanations and designing solutions Engaging in argument from evidence Obtaining, evaluating, and communicating information 	<ul style="list-style-type: none"> Observing patterns Investigating and explaining cause and effect Recognizing scale, proportion, and quantity Defining systems and system models Tracking energy and matter flows, into, out of, and within systems to understand system behavior Determining the relationships between structure and function Studying stability and change

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Science Literacy	Science Lab Safety
<ul style="list-style-type: none"> • Producing clear and coherent technical writing in which the development, organization and style are appropriate for the science topic • Correctly utilizing and explaining visually expressed information (e.g., flowchart, diagram, model, graph, table, or digital mapping technology) in a science narrative. • Appropriately using technical terminology or scientific concepts and processes to create visually expressed information • Reading with understanding articles about science in the popular press and engaging in social conversation about the validity of the conclusions • Identifying scientific issues underlying national and local decisions and expressing positions that are scientifically and technologically informed • Evaluating the quality and validity of scientific information on the basis of its source and the methods used to generate it 	<ul style="list-style-type: none"> • Requiring student lab safety training and demonstrating appropriate proficiency before participating in lab activities • Archiving signed student safety contracts documenting lab safety training and medical contraindications (e.g., allergies, contact lenses, medical conditions) • Wearing proper protective gear as needed (e.g., goggles, apron, and gloves) • Requiring grade appropriate lab equipment operation and safety training • Using and following SDS protocols • Storing and disposing of chemical/biological materials properly • Following ethical classroom uses of living materials/organisms • Displaying proper safety signage and laboratory rules in the classroom and lab

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The specific evaluation criteria apply to each grade level and are to be evaluated for each grade level unless otherwise specified. These criteria consist of information critical to the development of all grade levels. **In specific grade level criteria with bullet points, each of those items must be addressed.** Eighty percent of the general and eighty percent of the specific criteria must be met with I (In-depth) or A (Adequate) in order to be recommended.

(Vendor/Publisher) SPECIFIC LOCATION OF CONTENT WITHIN PRODUCT	(IRR Committee) Responses							
	I=In-depth	A=Adequate	M=Minimal	N=Nonexistent	I	A	M	N
In addition to alignment of West Virginia College- and Career-Readiness Standards (WVCCRS) for Science, instructional resources must also include opportunities for students to develop:								
College- and Career-Readiness Standards								
Life Science: Interdependent Relationships in Ecosystems								
Relationships Within Ecosystems SE/TE: Competition and Predation, 81-83 Symbiotic Relationships, 84-86 Lesson 1 Check, #4, 87 Topic 3 Review and Assess, #5, 120-121 Realize™ Digital Resources: Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 1: Interactions in Ecosystems>Interactivity: Symbiotic Relationships;>Investigate Lab: Competition and Predation;>Interactivity: Shared Interactions	1. Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.	X						

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<p>Relationships Within Ecosystems SE/TE: Quest Kickoff, 76-77 Biodiversity in Ecosystems, 115 Design It!, 117 uEngineer It!, 119</p> <p>Realize™ Digital Resources: Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Topic Launch: Populations, Communities, and Ecosystems>Quest Kickoff: To Cross or Not to Cross >Lesson 3: Biodiversity>Quest Check-In Lab: Design and Model a Crossing >Lesson 4: Ecosystem Services>uInvestigate Lab: Ecosystem Impacts;>uEngineer It! Interactivity: Maintaining Marine Ecosystems;>Interactivity: Walk This Way or That Way</p>	<p>2. Evaluate competing design solutions for maintaining biodiversity and ecosystem services.</p>	<p>X</p>					
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Matter and Energy in Organisms and Ecosystems

<p>Relationships Within Ecosystems SE/TE: Living Things and Energy, 5-7 Photosynthesis, 8-9 Expressing Photosynthesis, 10-11 Lesson 1 Check, #4, #5, 12 Topic 1 Evidence-Based Assessment, 26-27 Quest Findings, 27 uDemonstrate Lab, 28-31</p> <p>Realize™ Digital Resources: Relationships Within Ecosystems: Cell Processes >Lesson 1: Photosynthesis>Interactivity: Making Food for Cells</p>	<p>3. Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.</p>	<p align="center">X</p>					
<p>Relationships Within Ecosystems SE/TE: Energy and Cellular Respiration, 17-20 Model It!, 19 Lesson 2 Check, #2, 22 Topic 1 Review and Assess, #16, 24-25 uDemonstrate Lab, 28-31</p> <p>Realize™ Digital Resources: Relationships Within Ecosystems: Cell Processes >Lesson 2: Cellular Respiration>Interactivity: Making Energy for Cells;>uInvestigate Lab: Exhaling Carbon Dioxide;>Interactivity: Energy to Food and Food to Energy</p>	<p>4. Develop a model to describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as this matter moves through an organism.</p>	<p align="center">X</p>					

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<p>Relationships Within Ecosystems SE/TE: Levels of Organization, 39 Math Toolbox, 40 Factors That Limit Population Growth, 42 Case Study: The Case of the Disappearing Cerulean Warbler, 44-45 Topic 2 Review and Assess, #5, 66-67 uDemonstrate Lab, 70-73 Math Toolbox, 83 Ecosystem Disruptions and Population Survival, 92-93 Topic 3 Evidence-Based Assessment, 122-123 uDemonstrate Lab, 124-127</p> <p>Realize™ Digital Resources: Relationships Within Ecosystems: Ecosystems >Lesson 1: Living Things and the Environment>Interactivity: An Ecological Mystery;>uInvestigate Lab: Elbow Room Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 2: Dynamic and Resilient Ecosystems>Interactivity: A Butterfly Mystery</p>	<p>5. Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.</p>	<p>X</p>					
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<p>Relationships Within Ecosystems SE/TE: Competition and Predation, 81-83 Symbiotic Relationships, 84-86 Lesson 1 Check, #4, 87 Topic 3 Review and Assess, #5, 120-121</p> <p>Realize™ Digital Resources: Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Lesson 1: Interactions in Ecosystems>Interactivity: Symbiotic Relationships;>uInvestigate Lab: Competition and Predation;>Interactivity: Shared Interactions</p>	<p>6. Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.</p>	<p>X</p>						
<p>Relationships Within Ecosystems SE/TE: Succession, 89-91 Ecosystem Disruptions and Population Survival, 92-93 Lesson 2 Check, #2, 94 Case Study: The Dependable Elephant, 108-109 Connect It!, 110 Topic 3 Evidence-Based Assessment, 122-123 uDemonstrate Lab, 124-127</p> <p>Realize™ Digital Resources: Relationships Within Ecosystems: Populations, Communities, and Ecosystems >Topic Launch: Populations, Communities, and Ecosystems>uConnect Lab: How Communities Change >Lesson 2: Dynamic and Resilient Ecosystems>Interactivity: Succession in an Ecosystem;>Interactivity: A Butterfly Mystery</p>	<p>7. Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations.</p>	<p>X</p>						

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Physical Science: Atoms and Elements						
<p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Lesson 1: Describing and Classifying Matter>uInvestigate Lab: Modeling Atoms and Molecules;>Interactivity: Molecules and Extended Structures Atoms and Chemical Reactions: Atoms and the Periodic Table >Topic Launch: Atoms and the Periodic Table>uConnect Lab: Modeling Matter >Lesson 1: Atomic Theory>uInvestigate Lab: How Far Away is the Electron?</p>	<p>8. Develop models to describe the relationship between atoms and molecules.</p>	<p>X</p>				
<p>Realize™ Digital Resources: Atoms and Chemical Reactions: Atoms and the Periodic Table >Lesson 2, The Periodic Table>Interactivity: Interactive Periodic Table</p>	<p>9. Utilize the periodic table as an informational tool to identify elements.</p>	<p>X</p>				

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Waves and Electromagnetic Radiation						
<p>Waves and Information Technologies SE/TE: Types of Waves, 5-7 Properties of Waves, 8-9 Wave Energy, 10 Math Toolbox, 10 Lesson 1 Check, #4, 11 Topic 1 Evidence-Based Assessment, 56-57</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 1: Wave Properties>Interactivity: Modeling Waves;>Investigate Lab: Waves and Their Characteristics</p>	<p>10. Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave.</p>	<p>X</p>				
<p>Waves and Information Technologies SE/TE: Reflection, Refraction, and Absorption, 15-17 Model It!, 16 The Behavior of Sound, 25-27 Model It!, 27 Light, Color, and Objects, 45-47 Reflecting Light, 48-50 Model It!, 50 Lenses, 51-52 Topic 1 Review and Assess, #18, 54-55 Topic 1 Evidence-Based Assessment, 56-57</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Waves and Electromagnetic Radiation >Lesson 3: Sound Waves>Investigate Lab: Understanding Sound >Lesson 5: Light>Interactivity: Describe the Behavior of Light;>Investigate Lab: Light Interacting with Matter</p>	<p>11. Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.</p>	<p>X</p>				

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<p>Waves and Information Technologies SE/TE: The Essential Question, 63 Quest Kickoff, 64-65 Signals and Information, 77-79 Analog and Digital Signals, 80-82 Transmitting Signals, 83-84 Case Study: Super Ultra High Definition!, 86-87 Advantages of Digital Signals, 94-95 Lesson 3 Check, #4, 96 Topic 2 Review and Assess, #15, 98-99 Topic 2 Evidence-Based Assessment, 100-101 uDemonstrate Lab, 102-105</p> <p>Realize™ Digital Resources: Waves and Information Technologies: Information Technologies >Topic Launch: Information Technologies>Quest Kickoff: Testing, Testing... 1, 2, 3 >Lesson 2: Signals>Interactivity: Analog and Digital Signals;>uInvestigate Lab: Constructing a Simple Computer Circuit >Lesson 3: Communication and Technology>uInvestigate Lab: Let the Music Play;>Interactivity: Signal Reliability;>Quest Check-In Interactivity: Evaluate Recording Technologies</p>	<p>12. Integrate qualitative scientific and technical information to support the claim that digitized signals are a more reliable way to encode and transmit information than analog signals.</p>	<p>X</p>					
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Earth and Space Science: Space Systems						
<p>Earth's Place in the Universe SE/TE: The Seasons, 19-20 The Appearance of the Moon, 27-29 Two Types of Eclipses, 30 Eclipses, 31 Model It!, 31 Topic 1 Review and Assess, #17, #19, 36-37 Topic 1 Evidence-Based Assessment, 38-39 uDemonstrate Lab, 40-43</p> <p>Realize™ Digital Resources: Earth's Place in the Universe: Earth-Sun-Moon System >Lesson 3: Phases and Eclipses>Interactivity: Our View of the Moon;>Interactivity: Eclipses;>Worksheet: Eclipses;>Virtual Lab: Shadows in Space</p>	<p>13. Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.</p>	<p>X</p>				
<p>Earth's Place in the Universe SE/TE: Gravity, 21 Understanding the Solar System, 49-52 Formation and Development of Stars, 73 From Stars to Galaxies, 83-85 Topic 2 Evidence-Based Assessment, 94-95</p> <p>Realize™ Digital Resources: Earth's Place in the Universe: Solar System and the Universe >Lesson 1: Solar System Objects>Interactivity: Solar System;>Worksheet: Solar System;>uInvestigate Lab: Pulling Planets >Lesson 4: Galaxies>uInvestigate Lab: Model the Milky Way</p>	<p>14. Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.</p>	<p>X</p>				

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<p>Earth's Place in the Universe SE/TE: Distances in the Solar System, 50 Math Toolbox, 50 The Solar System, 56-57 Case Study: Comparing Solar System Objects, 60-61</p> <p>Realize™ Digital Resources: Earth's Place in the Universe: Solar System and the Universe >Topic Launch: Solar System and the Universe>uConnect Lab: Planetary Measures >Lesson 1: Solar System Objects>Interactivity: Distance Learning</p>	<p>15. Analyze and interpret data to determine scale properties of objects in the solar system.</p>	<p>X</p>						
Weather and Climate								
<p>Cycles Influencing Weather and Climate SE/TE: Major Air Masses, 23-24 Types of Fronts, 25-26 Model It!, 27</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 3: Air Masses>Interactivity: When Air Masses Collide;>uInvestigate Lab: Weather Fronts >Lesson 4: Predicting Weather Changes>Interactivity: Using Air Masses to Predict Weather;>uInvestigate Lab: Tracking Weather</p>	<p>16. Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.</p>	<p>X</p>						

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<p>Cycles Influencing Weather and Climate SE/TE: Energy in the Atmosphere, 9-10 Heat Transfer in the Atmosphere, 67-69 Causes of Winds, 73 Local Winds and Global Winds, 75-77 Model It!, 76 Global Wind Patterns, 78-79 Lesson 2 Check, #4, 80 Surface Currents, 83-86 Deep Ocean Currents, 87-88 Lesson 3 Check, #3, #4, 89 Topic 2 Review and Assess, #15, 92-93 Topic 2 Evidence-Based Assessment, 94-95 Factors That Affect Temperature, 105-107</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Energy in the Atmosphere and Ocean >Lesson 2: Patterns of Circulation in the Atmosphere>Inquiry Warm-Up Lab: Turn, Turn, Turn;>Interactivity: Winds Across the Globe >Lesson 3: Patterns of Circulation in the Ocean>Investigate Lab: Modeling Ocean Current Formation;>Interactivity: Keeping Current on Currents</p>	<p>17. Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.</p>	<p>X</p>					
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<p>Cycles Influencing Weather and Climate SE/TE: Recent Climate Change, 119-122 Topic 3 Review and Assess, #9, 136-137 Topic 3 Evidence-Based Assessment, 138-139</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Climate >Lesson 2: Climate Change>Interactivity: In the Greenhouse;>Interactivity: Climate Change Q & A</p>	<p>18. Ask questions to clarify evidence of the factors that have caused the change in global temperatures over the past century.</p>	<p>X</p>						
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Human Impacts					
<p>Cycles Influencing Weather and Climate SE/TE: Types of Severe Storms, 39-44</p> <p>Earth Systems SE/TE: Earthquakes, 125-127 uEngineer It!, 131 Predicting Volcano Hazards, 140 Topic 3 Evidence-Based Assessment, 144-145</p> <p>Changing Earth and Human Activity SE/TE: uEngineer It!, 13 Mass Movement, 16 Math Toolbox, 17 Lesson 2 Check, #4, 20 uDemonstrate Lab, 48-51</p> <p>Realize™ Digital Resources: Cycles Influencing Weather and Climate: Weather in the Atmosphere >Lesson 5: Severe Weather and Floods>uInvestigate Lab: Predicting Hurricanes;>Quest Check-In Lab: A History of Hazardous Weather Earth Systems: Plate Tectonics >Lesson 3: Earthquakes and Tsunami Hazards>uInvestigate Lab: Analyze Earthquake Data to Identify Patterns;>Quest Check-In Interactivity: Monitoring a Volcano;>Quest Worksheet: Monitoring a Volcano >Lesson 4: Volcanoes and Earth's Surface>Quest Check-In Lab: Signs of Eruption?</p>	<p>19. analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.</p>	<p>X</p>			

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Engineering, Technology, and Applications of Science: Engineering Design

This standard is addressed by labs and activities throughout *Elevate Science Modules*. For examples, please see:

Waves and Information Technologies

SE/TE:

Quest Kickoff: How can you design a system to stop a thief?, 2-3

Quest Kickoff: What is the best way to record sound for my scenario?, 64-65

Cycles Influencing Weather and Climate

SE/TE:

Quest Kickoff: How can you prepare for severe weather?, 2-3

Changing Earth and Human Activity: Earth's Surface Systems

>Lesson 2: Erosion and Deposition>Quest
Check-In Lab: Ingenious Island Part I

20. Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution.

X

<p>This standard is addressed by labs and activities throughout <i>Elevate Science Modules</i>. For examples, please see:</p> <p>Cycles Influencing Weather and Climate SE/TE: uEngineer It!, 81</p> <p>Realize™ Digital Resources: Changing Earth and Human Activity: Earth's Surface Systems >Lesson 3: Water Erosion>Quest Check-In Lab: Ingenious Island Part II</p>	<p>21. Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each.</p>	<p>X</p>						
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