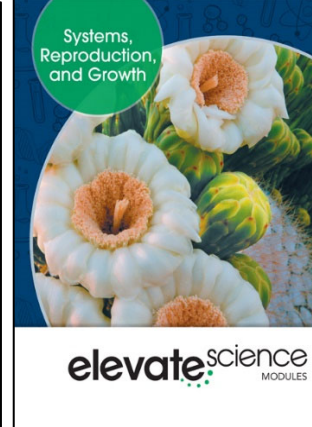
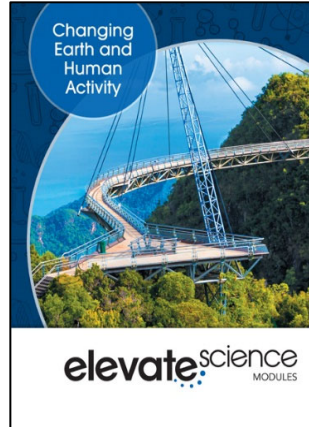
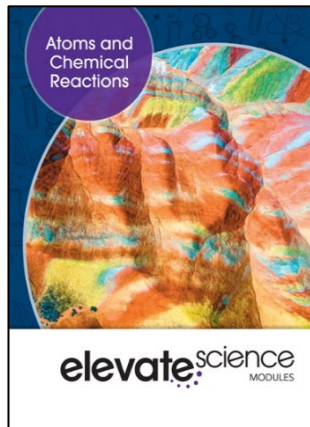
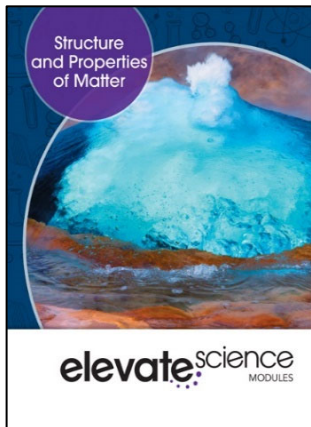


A Correlation of

elevateScience™
West Virginia Modules



To the

West Virginia
Course 6008 – Grade 8 Evaluation Criteria

PUBLISHER:	Savvas Learning Company, formerly Pearson K12 Learning		
SUBJECT:	Science	SPECIFIC GRADE:	8
COURSE:	6008 – Science, Grade 8	TITLE	elevateScience™ West Virginia Modules Package: Diversity of Life Systems, Reproduction, and Growth Structure and Properties of Matter Atoms and Chemicals Reactions Changing Earth and Human Activity
COPYRIGHT:	2019		
SE ISBN:	9781418399634	TE ISBN:	9781418399665
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 8

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		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.	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 Diversity of Life pages 25, 27, 54, 86, 89.
X		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.	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 a representative example from elevateScience™ module Diversity of Life page 25.

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>Yes, 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 Diversity of Life pages 3A-B, 5, 7, 26, 35, 36, 38, 48, 51, 62-65, 68A-B, 80, 89, 115.</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 the representative example from elevateScience™ module Diversity of Life pages Appendix A, B, C pages 142-145.</p>

Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

GENERAL EVALUATION CRITERIA

2022 -2028 Group IV – Science Grade 8

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>											
Representative Citations: Structure and Properties of Matter SE/TE: uDemonstrate Lab: Help Out the Wildlife, 38-41 Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Evidence of Chemical Change, 112-115 Changing Earth and Human Activity SE/TE: uDemonstrate Lab: Materials on a Slope, 48-51 Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: It's Alive, 54-57	1. provides opportunities for student collaboration.				X						

Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Continued: Diversity of Life SE/TE: uDemonstrate Lab: A Bony Puzzle, 126-129</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Topic Launch: Introduction to Matter>uConnect Lab: The Nuts and Bolts of Formulas</p> <p>Changing Earth and Human Activity: Distribution of Natural Resources >Lesson 1: Nonrenewable Energy Resources>uInvestigate Lab: Fossil Fuels</p> <p>Diversity of Life: Genes and Heredity >Lesson 3: Genetic Coding and Protein Synthesis>uInvestigate Lab: Modeling Protein Synthesis</p>							
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Quest Kickoff: How can you use science to make special effects?, 2-3</p> <p>Atoms and Chemical Reactions SE/TE: Quest Kickoff: How can you use chemistry to solve a culinary mystery?, 2-3</p> <p>Changing Earth and Human Activity SE/TE: Quest Kickoff: How can I design and build an artificial island?, 2-3</p> <p>Systems, Reproduction, and Growth SE/TE: Quest Kickoff: How do your body systems interact when you train for your favorite sport?, 112-113</p> <p>Diversity of Life SE/TE: Quest Kickoff: How can you sell a new fruit?, 2-3</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Solids, Liquids, and Gases >Topic Launch: Solids, Liquids, and Gases>Quest Kickoff: Getting a Lift Changing Earth and Human Activity: Human Impacts on the Environment >Topic Launch: Human Impacts on the Environment>Quest Kickoff: Trash Backlash Systems, Reproduction, and Growth: Reproduction and Growth >Topic Launch: Reproduction and Growth>Quest Kickoff: Construction Without Destruction</p>	<p>2. provides opportunities for students to investigate and discover multiple solutions through inquiry.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: uEngineer It!: Gathering Speed with Superconductors, 33</p> <p>Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Shedding Light on Ions, 60-63</p> <p>Changing Earth and Human Activity SE/TE: uEngineer It: Ground Shifting Advances: Maps Help Predict, 13</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab STEM: Design and Build a Microscope, 106-109</p> <p>Diversity of Life: SE/TE: Topic 1 Evidence-Based Assessment, 60-61</p> <p>Realize™ Digital Resources: Systems, Reproduction, and Growth: The Cell System >Lesson 1: Structure and Function of Cells>uInvestigate Lab: Observing Cells Diversity of Life: Genes and Heredity >Lesson 5: Genetic Technologies>Worksheet: DNA Fingerprinting;>Interactivity: Solving Problems with Genetics</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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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Case Study: An Epic Disaster, 22-23 Quest Kickoff: How can you use solids, liquids, and gases to lift a car?, 44-45</p> <p>Atoms and Chemical Reactions SE/TE: Quest Kickoff: How can you design and build hot packs and cold packs?, 66-67</p> <p>Changing Earth and Human Activity SE/TE: Case Study: Phosphorus Fiasco, 82-83</p> <p>Systems, Reproduction, and Growth SE/TE: Case Study: Warmer Waters, Fewer Fish, 222-223</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Solids, Liquids, and Gases >Lesson 1: States of Matter>uEngineer It! Interactivity: A Matter of Printing Continued: Atoms and Chemical Reactions: Chemical Reactions >Lesson 1: Mixtures and Solutions>uEngineer It! Interactivity: Water Contaminants and Removal Methods Changing Earth and Human Activity: Earth's Surface Systems >Lesson 1: Weathering and Soil>uEngineer It! Interactivity: Landslide Prevention</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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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: uDemonstrate Lab: Help Out the Wildlife, 38-41</p> <p>Changing Earth and Human Activity SE/TE: uDemonstrate Lab: To Drill or Not to Drill, 96-99 uDemonstrate Lab: Washing Away, 150-153</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: Clean and Green, 228-231</p> <p>Diversity of Life SE/TE: uDemonstrate Lab: Make the Right Call!, 62-65</p> <p>Realize™ Digital Resources: Changing Earth and Human Activity: Human Impacts on the Environment >Lesson 2: Air Pollution>Interactivity: Damage From the Skies >Lesson 3: Impacts on Land>Interactivity: Farming Lessons Diversity of Life: Genes and Heredity >Lesson 5: Genetic Technologies>Interactivity: DNA Fingerprinting</p>	<p>5. offers activities to connect multiple scientific phenomena to real-world events.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

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: Atoms and Chemical Reactions TE Only: Professional Development, 2</p> <p>Changing Earth and Human Activity TE Only: Professional Development, 26 Professional Development, 78 SE/TE: My Community, 121</p> <p>Systems, Reproduction, and Growth TE Only: Professional Development, 76 Professional Development, 162 Professional Development, 180</p> <p>Diversity of Life TE Only: Professional Development, 116</p>	<p>6. interact with secure external multimedia resources for local and global collaboration.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: My Discovery, 65</p> <p>Atoms and Chemical Reactions SE/TE: My Discovery, 55</p> <p>Changing Earth and Human Activity SE/TE: My Community, 121</p> <p>Systems, Reproduction, and Growth SE/TE: My Discovery, 71</p> <p>Diversity of Life SE/TE: My Discovery, 121</p> <p>Realize™ Digital Resources: Changing Earth and Human Activity: Human Impacts on the Environment >Lesson 2: Air Pollution>Quest Check-In Lab: Trash versus Water >Lesson 4: Water Pollution>Quest Check-In Lab: Reducing Waste Diversity of Life: Natural Selection and Change Over Time >Lesson 5: Other Evidence of Evolution>Quest Check-In Interactivity: Prepare Your Report</p>	<p>7. develop conceptual understanding and research skills.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Quest Findings: Complete the Quest!, 37</p> <p>Atoms and Chemical Reactions SE/TE: Quest Findings: Complete the Quest!, 59</p> <p>Changing Earth and Human Activity SE/TE: Quest Findings: Complete the Quest!, 47</p> <p>Systems, Reproduction, and Growth SE/TE: Quest Findings: Complete the Quest!, 53</p> <p>Diversity of Life SE/TE: Quest Findings: Complete the Quest!, 125</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Lesson 4: Producing Useful Materials>Investigate Lab: Making Plastic From Starch Systems, Reproduction, and Growth: Human Body Systems >Topic Close: Human Body Systems>Quest Findings: Reflect on Peak Performance Plan Diversity of Life: Genes and Heredity >Topic Close: Genes and Heredity>Quest Findings: Reflect on Funky Fruits</p>	<p>8. articulate thoughts and ideas through oral, written, and multimedia communications.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Model It!: Molecules and Atoms, 9</p> <p>Atoms and Chemical Reactions SE/TE: Model It!: Formation of Ammonia, 92</p> <p>Changing Earth and Human Activity SE/TE: Math Toolbox: Comparing Weathered Limestone, 8</p> <p>Systems, Reproduction, and Growth SE/TE: Math Toolbox: Exercise and Blood Flow Rate, 152</p> <p>Diversity of Life SE/TE: Math Toolbox: Hatching for Success, 84</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Atoms and Periodic Table >Lesson 2: The Periodic Table>Worksheet: Interactive Periodic Table Diversity of Life: Natural Selection and Change Over Time >Lesson 2: Natural Selection>Investigate Lab: Variation in a Population >Lesson 4: Evidence in the Fossil Record>Interactivity: Legs, Arms, Wings, and Flippers</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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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

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: Structure and Properties of Matter SE/TE: uDemonstrate Lab: Melting Ice, 82-85</p> <p>Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Shedding Light on Ions, 60-63</p> <p>Changing Earth and Human Activity SE/TE: uDemonstrate Lab: To Drill or Not to Drill, 96-99</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: Reaction Research, 174-177</p> <p>Diversity of Life SE/TE: uDemonstrate Lab: Make the Right Call!, 62-65</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Solids, Liquids, and Gases >Lesson 3: Gas Behavior>Quest Check-In Lab: Phases of Matter Changing Earth and Human Activity: Earth's Surface Systems >Lesson 4: Glacial and Wave Erosion>uInvestigate Lab: Changing Coastlines Systems, Reproduction, and Growth: The Cell System >Lesson 3: Obtaining and Removing Materials>uInvestigate Lab: Egg-speriment with a Cell</p>	<p>10. use interpersonal skills to work cooperatively to accomplish a task.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: uDemonstrate Lab: Help Out the Wildlife, 38-41</p> <p>Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Evidence of Chemical Change, 112-115</p> <p>Changing Earth and Human Activity SE/TE: uDemonstrate Lab: Washing Away, 150-153</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: Clean and Green, 228-231</p> <p>Diversity of Life SE/TE: uDemonstrate Lab: A Bony Puzzle, 129-129</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Atoms and the Periodic Table >Topic Close: Atoms and the Periodic Table>uDemonstrate Lab: Shedding Light on Ions Changing Earth and Human Activity: Earth's Surface Systems >Lesson 2: Erosion and Deposition>uInvestigate Lab: Small, Medium, and Large >Lesson 4: Glacial and Wave Erosion>uInvestigate Lab: Changing Coastlines</p>	<p>11. develop and initiate a plan of action to complete a task or project.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter TE Only: Professional Development, 38</p> <p>Changing Earth and Human Activity TE Only: Differentiated Instruction, 49</p> <p>Systems, Reproduction, and Growth TE Only: Professional Development, 84</p>	<p>12. practice time- and project-management skills.</p>	<p>X</p>					
<p>Representative Citations: Atoms and Chemical Reactions SE/TE: Quest Findings: Complete the Quest!, 59</p> <p>Changing Earth and Human Activity SE/TE: Quest Findings: Complete the Quest!, 47</p> <p>Systems, Reproduction, and Growth SE/TE: Quest Findings: Complete the Quest!, 105 Quest Findings: Complete the Quest!, 173</p> <p>Diversity of Life SE/TE: Quest Findings: Complete the Quest!, 125</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Topic Close: Introduction to Matter>Quest Findings: Reflect on Your Scene Changing Earth and Human Activity: Human Impacts on the Environment >Topic Close: Human Impacts on the Environment>Quest Findings: Reflect on Trash Backlash</p>	<p>13. reflect upon and evaluate the results of a task or project.</p>	<p>X</p>					

Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter TE Only: Professional Development, 38</p> <p>Changing Earth and Human Activity TE Only: Differentiated Instruction, 49</p> <p>Systems, Reproduction, and Growth TE Only: Professional Development, 84</p>	<p>14. assume various roles and responsibilities when working independently or as a group.</p>	<p>X</p>					
<p>Representative Citations: Structure and Properties of Matter SE/TE: Careers: Museum Technician, 13</p> <p>Changing Earth and Human Activity SE/TE: Careers: Civil Engineer, 21</p> <p>Systems, Reproduction, and Growth SE/TE: Careers: Nutritionist, 147</p> <p>Diversity of Life TE Only: Professional Development, 40 SE/TE: Careers: Genetic Counselor, 25</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Lesson 2: Chemical Change>Career Video: Forensic Scientist Systems, Reproduction, and Growth: Living Things in the Biosphere >Lesson 3: Viruses, Bacteria, Protists, and Fungi>Career Video: Public Health Advisor</p>	<p>15. explore science-related careers.</p>	<p>X</p>					

Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: My Discovery, 65</p> <p>Atoms and Chemical Reactions SE/TE: My Discovery, 55</p> <p>Changing Earth and Human Activity TE Only: Differentiated Instruction, 115</p> <p>Systems, Reproduction, and Growth SE/TE: My Discovery, 71</p> <p>Diversity of Life TE Only: Professional Development, 54</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Lesson 3: Changes in Matter>Quest Check-In Lab: Cinematic Science Atoms and Chemical Reactions: Chemical Reactions >Lesson 4: Producing Useful Materials>Investigate Lab: Making Plastic From Starch Diversity of Life: Natural Selection and Change Over Time >Lesson 5: Other Evidence of Evolution>Quest Check-In Interactivity: Prepare Your Report</p>	<p>16. conduct research, validate sources, and report findings in an ethical manner.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Topic 1 Evidence-Based Assessment, 36-37</p> <p>Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Evidence of Chemical Change, 112-115</p> <p>Changing Earth and Human Activity SE/TE: Topic 3 Evidence-Based Assessment, 148-149</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: It's Alive!, 54-57</p> <p>Diversity of Life SE/TE: Topic 2 Evidence-Based Assessment, 124-125</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Atoms and the Periodic Table >Topic Close: Atoms and the Periodic Table>uDemonstrate Lab: Shedding Light on Ions Changing Earth and Human Activity: Human Impacts on the Environment >Topic Close: Human Impacts on the Environment>uDemonstrate Lab: Washing Away Diversity of Life: Genes and Heredity >Topic Close: Genes and Heredity>uDemonstrate Lab: Make the Right Call!</p>	<p>17. demonstrate mastery through multiple efforts.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

Developmentally Appropriate Instructional Resources and Strategies

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

<p>Representative Citations: Structure and Properties of Matter TE Only: Differentiated Instruction, 17</p> <p>Atoms and Chemical Reactions TE Only: ELD Support, 79</p> <p>Changing Earth and Human Activity TE Only: Differentiated Instruction, 115</p> <p>Systems, Reproduction, and Growth TE Only: Differentiated Instruction, 185</p> <p>Diversity of Life TE Only: ELD Support, 113</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Solids, Liquids, and Gases >Lesson 3: Gas Behavior>Enrichment: Gas Behavior in Daily Life Atoms and Chemical Reactions: Chemical Reactions >Lesson 4: Producing Useful Materials>Enrichment: How Sweet It Is Diversity of Life: Genes and Heredity >Lesson 5: Genetic Technologies>Enrichment: Advances in Genetics</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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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Literacy Connection: Write Explanatory Texts, 30</p> <p>Atoms and Chemical Reactions TE Only: Teach with Movement, 91</p> <p>Changing Earth and Human Activity TE Only: Spark a Discussion, 23</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: Reaction Research, 174-177</p> <p>Diversity of Life SE/TE: Literacy Connection: Integrate with Visuals, 40</p> <p>Realize™ Digital Resources: Changing Earth and Human Activity: Earth's Surface Systems >Lesson 4: Glacial and Wave Erosion>uInvestigate Lab: Changing Coastlines Diversity of Life: Genes and Heredity >Lesson 1: Patterns of Inheritance>uInvestigate Lab: Pea Plant Puzzle Diversity of Life: Natural Selection and Change Over Time >Lesson 5: Other Evidence of Evolution>Quest Check-In Interactivity: Prepare Your Report</p>	<p>19. provide multiple opportunities for incorporating various learning modalities.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Topic 2 Evidence-Based Assessment, 80-81</p> <p>Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Shedding Light on Ions, 60-63</p> <p>Changing Earth and Human Activity SE/TE: uDemonstrate Lab: To Drill or Not to Drill, 96-99</p> <p>Systems, Reproduction, and Growth SE/TE: Topic 4 Evidence-Based Assessment, 226-227</p> <p>Diversity of Life SE/TE: Topic 2 Evidence-Based Assessment, 124-125</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Lesson 2: Chemical Change>uInvestigate Lab: Changes in a Burning Candle Systems, Reproduction, and Growth: Reproduction and Growth >Lesson 4: Factors Influencing Growth>uInvestigate Lab: Watching Roots Grow Diversity of Life: Natural Selection and Change Over Time >Lesson 5: Other Evidence of Evolution>uInvestigate Lab: Evidence of Evolution</p>	<p>20. cultivate investigative skills to lead students to form logical conclusions.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Literacy Connection: Write Explanatory Texts, 30 TE Only: Differentiated Instruction, 11</p> <p>Atoms and Chemical Reactions SE/TE: Academic Vocabulary, 6</p> <p>Systems, Reproduction, and Growth TE Only: Focus on Mastery!, 176 Diversity of Life TE Only: Differentiated Instruction, 125</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Lesson 1: Mixtures and Solutions>Quest Check-In Lab: Energy Salts Changing Earth and Human Activity: Earth's Surface Systems >Lesson 2: Erosion and Deposition>Investigate Lab: Small, Medium, and Large Diversity of Life: Natural Selection and Change Over Time >Lesson 4: Evidence in the Fossil Record>Interactivity: Legs, Arms, Wings, and Flippers</p>	<p>21. incorporate authentic scientific vocabulary and technical terminology.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: Appendix A: Safety Symbols, 98</p> <p>Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Shedding Light on Ions, 60-63 uDemonstrate Lab: Evidence of Chemical Change, 112-115</p> <p>Changing Earth and Human Activity SE/TE: uDemonstrate Lab: Materials on a Slope, 48-51</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: Clean and Green, 228-231</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Lesson 3: Changes in Matter>Quest Check-In Lab: Cinematic Science Atoms and Chemical Reactions: Atoms and the Periodic Table >Lesson 4: Types of Bonds>uInvestigate Lab: Properties of Molecular Compounds Atoms and Chemical Reactions: Chemical Reactions >Lesson 1: Mixtures and Solutions>Quest Check-In Lab: Energy Salts</p>	<p>22. integrate laboratory safety practices within learning experiences.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

Life Skills

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

<p>Representative Citations: Structure and Properties of Matter SE/TE: Quest Findings: Complete the Quest!, 81</p> <p>Atoms and Chemical Reactions SE/TE: Quest Findings: Complete the Quest!, 59</p> <p>Changing Earth and Human Activity SE/TE: Quest Finings: Complete the Quest!, 95</p> <p>Systems, Reproduction, and Growth SE/TE: Quest Findings: Complete the Quest!, 53</p> <p>Diversity of Life SE/TE: Quest Findings: Complete the Quest!, 125</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Topic Close: Introduction to Matter>Quest Findings: Reflect on Your Scene Changing Earth and Human Activity: Earth’s Surface Systems >Topic Close: Earth’s Surface Systems>Quest Findings: Reflect on Your Ingenious Island Systems, Reproduction, and Growth: Reproduction and Growth >Topic Close: Reproduction and Growth>Quest Findings: Reflect on Your Basketball Court Plans</p>	<p>23. persevere to complete a task and generate high quality work.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Atoms and Chemical Reactions SE/TE: Case Study: Unlocking the Power of the Atom, 14-15 TE Only: Spark a Discussion, 104</p> <p>Diversity of Life SE/TE: Practical Uses for DNA, 54-56 Using Genetic Information, Figure 9: Evaluate Reasoning, 56 Reading Check: Corroborate, 56 Topic 1 Review and Assess, #19, 58-59 TE Only: Spark a Discussion, 60</p> <p>Realize™ Digital Resources: Diversity of Life: Genes and Heredity >Lesson 5: Genetic Technologies>Interactivity: Solving Problems with Genetics</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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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: uEngineer It!: From “Ink” to Objects: 3D Printing, 55</p> <p>Atoms and Chemical Reactions SE/TE: uEngineer It!: Making Water Safe to Drink, 77</p> <p>Changing Earth and Human Activity SE/TE: uDemonstrate Lab: Washing Away, 150-153</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: Clean and Green, 228-231</p> <p>Diversity of Life SE/TE: SEP Use Models, 11</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Atoms and the Periodic Table >Lesson 3: Bonding and the Periodic Table>uInvestigate Lab: Element Chemistry Systems, Reproduction, and Growth: Living Things in the Biosphere >Lesson 4: Plants and Animals>uInvestigate Lab: Algae and Plants Systems, Reproduction, and Growth: The Cell System >Lesson 4: Cell Division>uInvestigate Lab: Modeling Mitosis</p>	<p>25. engage in hands-on activities to promote the understanding of science content.</p>	<p>X</p>					
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Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>Representative Citations: Structure and Properties of Matter SE/TE: uDemonstrate Lab: Melting Ice, 82-85</p> <p>Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Evidence of Chemical Change, 112-115</p> <p>Changing Earth and Human Activity SE/TE: uDemonstrate Lab: Materials on a Slope, 48-51</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: It's Alive!, 54-57</p> <p>Diversity of Life SE/TE: uDemonstrate Lab: A Bony Puzzle, 126-129</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Solids, Liquids, and Gases >Lesson 1: States of Matter>uInvestigate Lab: Properties of Matter Atoms and Chemical Reactions: Atoms and the Periodic Table >Lesson 1: Atomic Theory>uInvestigate Lab: How Far Away Is the Electron? Systems, Reproduction, and Growth: Human Body Systems >Lesson 1: Body Organization>uInvestigate Lab: Observing Cells and Tissues</p>	<p>26. investigate the natural world and universe.</p>	<p>X</p>					
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<p>Representative Citations: Atoms and Chemical Reactions TE Only: Professional Development, 14 Spark a Discussion, 104</p> <p>Changing Earth and Human Activity TE Only: Spark a Discussion, 109</p> <p>Systems, Reproduction, and Growth TE Only: Spark a Discussion, 76</p> <p>Diversity of Life TE Only: Spark a Discussion, 60</p> <p>Realize™ Digital Resources: Changing Earth and Human Activity: Earth's Surface Systems >Topic Close: Earth's Surface Systems>Quest Findings: Reflect on Your Ingenious Island Changing Earth and Human Activity: Distribution of Natural Resources >Topic Close: Distribution of Natural Resources>Quest Findings: Reflect on Boomtowns Systems, Reproduction, and Growth: Human Body Systems >Topic Close: Human Body Systems>Quest Findings: Reflect on Peak Performance Plan</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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<p>Representative Citations: Changing Earth and Human Activity SE/TE: Using Energy Resources, 64 Case Study: Phosphorus Fiasco, 82-83 Human Impacts, 88-89 Using Natural Resources, 108-109</p> <p>Diversity of Life SE/TE: Topic 1 Evidence-Based Assessment, 60-61</p> <p>Realize™ Digital Resources: Changing Earth and Human Activity: Distribution of Natural Resources >Lesson 1: Nonrenewable Energy Resources>Investigate Lab: Fossil Fuels Changing Earth and Human Activity: Human Impacts on the Environment >Lesson 1: Population Growth and Resource Consumption>Investigate Lab: Doubling Time Diversity of Life: Genes and Heredity >Lesson 5: Genetic Technologies>Interactivity: Solving Problems with Genetics</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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<p>Representative Citations: Structure and Properties of Matter SE/TE: uDemonstrate Lab: Help Out the Wildlife, 38-41 Appendix A: Safety Symbols, 98</p> <p>Atoms and Chemical Reactions SE/TE: uDemonstrate Lab: Shedding Light on Ions, 60-63</p> <p>Changing Earth and Human Activity SE/TE: uDemonstrate Lab: To Drill or Not to Drill, 96-99</p> <p>Systems, Reproduction, and Growth SE/TE: uDemonstrate Lab: It's Alive!, 54-57</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Lesson 4: Producing Useful Materials>uInvestigate Lab: Making Plastic From Starch Systems, Reproduction, and Growth: Living Things in the Biosphere >Lesson 1: Living Things>uInvestigate Lab: Cheek Cells Systems, Reproduction, and Growth: Human Body Systems >Lesson 3: Supplying Energy>uInvestigate Lab: Measuring Calories</p>	<p>29. use laboratory equipment properly.</p>	<p>X</p>					
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Assessment

The instructional resources provide:

<p>Representative Citations: Structure and Properties of Matter SE/TE: Lesson 1 Check, 12 Topic 1 Review and Assess, 34-35 Topic 1 Evidence-Based Assessment, 36-37</p> <p>Diversity of Life SE/TE: Lesson 3 Check, 34 Topic 1 Review and Assess, 58-59</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Atoms and the Periodic Table >Lesson 1: Atomic Theory>Quiz: Atomic Theory >Lesson 3: Bonding and the Periodic Table>Quiz: Bonding and the Periodic Table >Topic Close>Atoms and the Periodic Table>Test: Atoms and the Periodic Table</p>	<p>30. ongoing diagnostic formative and summative assessments.</p>	<p>X</p>					
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<p>Representative Citations: Structure and Properties of Matter SE/TE: uDemonstrate Lab: Help Out the Wildlife, 38-41</p> <p>Atoms and Chemical Reactions SE/TE: Topic 1 Evidence-Based Assessment, 58-59</p> <p>Changing Earth and Human Activity SE/TE: Lesson 1 Check, 65</p> <p>Systems, Reproduction, and Growth SE/TE: Topic 4 Evidence-Based Assessment, 226-227</p> <p>Diversity of Life SE/TE: Topic 2 Review and Assess, 122-123</p> <p>Realize™ Digital Resources: Changing Earth and Human Activity: Earth's Surface Systems >Lesson 4: Glacial and Wave Erosion>Quiz: Glacial and Wave Erosion >Topic Close: Earth's Surface Systems>uDemonstrate Lab: Materials on a Slope;>Test: Earth's Surface Systems</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: Structure and Properties of Matter TE Only: Scoring Notes, 37 Scoring Notes, 41</p> <p>Atoms and Chemical Reactions TE Only: Scoring Notes, 63</p> <p>Changing Earth and Human Activity TE Only: Scoring Notes, 47</p> <p>Systems, Reproduction, and Growth TE Only: Scoring Notes, 231</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Topic Launch: Introduction to Matter>Quest Rubric: Lights! Camera! Action! Systems, Reproduction, and Growth: Living Things in the Biosphere >Topic Launch: Living Things in the Biosphere>Quest Rubric: Sort Out Those Organisms Diversity of Life: Natural Selection and Change Over Time >Topic Launch: Natural Selection and Change Over Time>Quest Rubric: A Migration Puzzle</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:

<p>Representative Citations: Structure and Properties of Matter SE/TE: Table of Contents, vi-vii Quest Kickoff: How can you use science to make special effects?, 2-3 Quest Check-In, 12 Quest Findings: Complete the Quest!, 37 TE Only: Pacing Guide, T18</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Topic Launch: Introduction to Matter>uConnect Lab: The Nut and Bolts of Formulas >Lesson 1: Describing and Classifying Matter>Quest Check-In Interactivity: The Science of Special Effects >Lesson 3: Changes in Matter>Quest Check-In Lab: Cinematic Science</p>	<p>33. are organized in logical sequence to optimize instructional effectiveness and efficiency.</p>	<p>X</p>					
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<p>Representative Citations: Atoms and Chemical Reactions SE/TE: Development of Atomic Theory, 5-9</p> <p>Changing Earth and Human Activity SE/TE: Breaking Down Earth's Surface, 5 Groundwater Changes Earth's Surface, 29-30</p> <p>Systems, Reproduction, and Growth SE/TE: Human Organ Systems, 118-121</p> <p>Diversity of Life SE/TE: Chromosomes and Genes, 17-19</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Atoms and the Periodic Table >Lesson 1: Atomic Theory>Investigate Lab: How Far Away Is the Electron? Changing Earth and Human Activity: Earth's Surface Systems >Lesson 3: Water Erosion>Interactivity: Karst Topography Diversity of Life: Genes and Heredity >Lesson 1: Patterns of Inheritance>Interactivity: Pea Plant Puzzle</p>	<p>34. connect common themes across multiple science disciplines.</p>	<p>X</p>					
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<p>Representative Citations: Atoms and Chemical Reactions SE/TE: It's All Connected: The Art of Chemical Change, 89</p> <p>Changing Earth and Human Activity SE/TE: World Politics, 64 TE Only: Connect to the Real World: Resource Supply and Demand, 54</p> <p>Diversity of Life SE/TE: DNA Technologies, 55 TE Only: Professional Development, 110</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Solids, Liquids, and Gases >Topic Launch: Solids, Liquids, and Gases>Quest Kickoff: Getting a Lift Atoms and Chemical Reactions: Atoms and the Periodic Table >Topic Launch: Atoms and the Periodic Table>Quest Kickoff: Dessert Disaster Diversity of Life: Genes and Heredity >Lesson 5: Genetic Technologies>Worksheet: DNA Fingerprinting</p>	<p>35. integrate cross-curricular connections.</p>	<p>X</p>					
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<p>Representative Citations: Structure and Properties of Matter TE Only: Professional Development, 58 Professional Development, 60</p> <p>Atoms and Chemical Reactions TE Only: Professional Development, 80</p> <p>Changing Earth and Human Activity TE Only: Professional Development, 8 Professional Development, 24</p> <p>Systems, Reproduction, and Growth TE Only: Professional Development, 84</p> <p>Diversity of Life TE Only: Professional Development, 8 Professional Development, 28</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 8**

Science - Grade 8

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: Growth, Development, and Reproduction of Organisms										
<p>Systems, Reproduction, and Growth SE/TE: The Essential Question, 179 Plant Reproduction, 193 Plant Life Cycles, 194-195 Structures for Reproduction, 196-199 Lesson 2 Check, #2, 200 Animal Behavior, 203-205 Reproductive Strategies, 206-209 Lesson 3 Check, #3, 210 Topic 4 Review and Assess, 224-225 Topic 4 Evidence-Based Assessment, 226-227</p> <p>Realize™ Digital Resources: Systems, Reproduction, and Growth: Reproduction and Growth >Topic Launch: Reproduction and Growth>uConnect Lab: To Care or Not to Care >Lesson 2: Plant Structures for Reproduction>uInvestigate Lab: Modeling Flowers >Lesson 3: Animal Behaviors for Reproduction>Interactivity: They're Acting Like Animals;>uInvestigate Lab: Animal Behaviors for Reproduction</p>	<p>1. Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.</p>	X								

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<p>Systems, Reproduction, and Growth SE/TE: The Essential Question, 179 Connect It!, 212 Growth and Development of Organisms, 213 Plant Responses and Growth, 214-216 Write About It, 216 Animal Growth, 217-220 Case Study: Warmer Waters, Fewer Fish, 222-223 Topic 4 Review and Assess, #17, 224-225 Topic 4 Evidence-Based Assessment, 226-227 uDemonstrate Lab, 228-231</p> <p>Realize™ Digital Resources: Systems, Reproduction, and Growth: Reproduction and Growth >Lesson 4: Factors Influencing Growth>Interactivity: Breeding Bigger Bovines;>uInvestigate Lab: Watching Roots Grow;>uInvestigate Lab: What Are the Factors?</p>	<p>2. Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.</p>	<p>X</p>						
<p>Diversity of Life SE/TE: Case Study: Cephalopods Special Edition, 14-15 Types of Mutations, 40-41 Model It!, 41 Mutation Effects, 43 Mutations in Reproduction, 44-46 Genetic Evidence for a Common Ancestor, 114-115 Proteins, 116-117</p> <p>Realize™ Digital Resources: Diversity of Life: Genes and Heredity >Lesson 3: Genetic Coding and Protein Synthesis>uInvestigate Lab: Modeling Protein Synthesis</p>	<p>3. Develop and use a model to describe why structural changes to genes (mutations) located on chromosomes may affect proteins and may result in harmful, beneficial, or neutral effects to the structure and function of an organism.</p>	<p>X</p>						

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<p>Systems, Reproduction, and Growth SE/TE: Asexual and Sexual Reproduction, 183-185 Model It!, 184 Inherited Traits, 186-188 Lesson 1 Check, #5, 191 Topic 4 Review and Assess, #5, 224-225</p> <p>Diversity of Life SE/TE: Forming Sex Cells, 21-23</p> <p>Realize™ Digital Resources: Systems, Reproduction, and Growth: Reproduction and Growth >Lesson 1: Patterns of Reproduction>Investigate Lab: Comparing Methods of Reproduction Diversity of Life: Genes and Heredity >Lesson 2: Chromosomes and Inheritance>Interactivity: Look Inside;>Interactivity: Colorful Chromosomes</p>	<p>4. Develop and use a model to describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation.</p>	<p>X</p>						
<p>Diversity of Life SE/TE: Artificial Selection, 49 Genetic Engineering, 50-53 Controversies of DNA Use, 56 Topic 1 Evidence-Based Assessment, 60-61</p> <p>Realize™ Digital Resources: Diversity of Life: Genes and Heredity >Lesson 5: Genetic Technologies>Interactivity: Solving Problems with Genetics;>Enrichment: Advances in Genetics</p>	<p>5. Gather and synthesize information about the technologies that have changed the way humans influence the inheritance of desired traits in organisms.</p>	<p>X</p>						

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Natural Selection and Adaptations

<p>Diversity of Life SE/TE: Connect It!, 98 The Fossil Record, 99-101 Fossil Evidence of Evolution, 102-103 Beginning and End of Species, 106 Lesson 4 Check, #4, 109 Case Study: Could Dinosaurs Roar?, 110-111</p> <p>Realize™ Digital Resources: Diversity of Life: Natural Selection and Change Over Time >Topic Launch: Natural Selection and Change Over Time>uConnect Lab: Walking Whales? >Lesson 4: Evidence in the Fossil Record>Interactivity: Along the Canyon Wall;>Interactivity: Fossils Around the World;>Enrichment: The Horse Fossil Record</p>	<p>6. Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past.</p>	<p align="center">X</p>						
<p>Diversity of Life SE/TE: Homologous Structures, 104 Math Toolbox, 105 Lesson 4 Check, #3, 109 uDemonstrate Lab, 126-129</p> <p>Realize™ Digital Resources: Diversity of Life: Natural Selection and Change Over Time >Lesson 4: Evidence in the Fossil Record>Interactivity: Legs, Arms, Wings, and Flippers</p>	<p>7. Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer evolutionary relationships</p>	<p align="center">X</p>						

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<p>Diversity of Life SE/TE: Embryological Development, 104</p> <p>Realize™ Digital Resources: Diversity of Life: Natural Selection and Change Over Time >Lesson 5: Other Evidence of Evolution>Interactivity: Tiny Clues</p>	<p>8. Analyze displays of pictorial data to compare patterns of similarities in the embryological development across multiple species to identify relationships not evident in the fully formed anatomy.</p>	<p>X</p>						
<p>Diversity of Life SE/TE: Galapagos Organisms, 76-77 How Natural Selection Works, 83-85 Model It!, 85 Lesson 2 Check, #5, 88</p> <p>Realize™ Digital Resources: Diversity of Life: Natural Selection and Change Over Time >Lesson 2: Natural Selection>Interactivity: Mice Selection on the Prairie;>Interactivity: Lessons From the Potato Famine</p>	<p>9. Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.</p>	<p>X</p>						
<p>Diversity of Life SE/TE: Connect It!, 80 Evolution by Natural Selection, 81-85 Math Toolbox, 84 Model It!, 85 Lesson 2 Check, #4, 88 Sexual Selection, 95</p> <p>Realize™ Digital Resources: Diversity of Life: Natural Selection and Change Over Time >Lesson 2: Natural Selection>Interactivity: Mice Selection on the Prairie;>Virtual Lab: Natural Selection in Butterfly Behavior</p>	<p>10. Use mathematical models, probability statements, and proportional reasoning to support explanations of how natural selection may lead to increases and decreases of specific traits in populations over time.</p>	<p>X</p>						

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Physical Science: Structure and Properties of Matter							
<p>Structure and Properties of Matter SE/TE: Components of Matter, 8-10 Model It!, 9 Topic 1 Evidence-Based Assessment, 36-37</p> <p>Atoms and Chemical Reactions SE/TE: A Modern Model of the Atom, 10-12 Lesson 1 Check, #5, 13 Forming Ionic Bonds, 41 Covalent Bonding, 42-44 Topic 1 Review and Assess, #5, 56-57</p> <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>11. Develop models to describe the atomic composition of simple molecules and basic extended structures.</p>	<p>X</p>					

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<p>Atoms and Chemical Reactions SE/TE: Synthetic Materials, 99-102 Impact of Synthetic Materials, 103-104 Case Study: Is Plastic Really So Fantastic?, 106-107 Topic 2 Review and Assess, #17, 108-109</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Lesson 4: Producing Useful Materials>Interactivity: Describe the Impact of Synthetics;>Investigate Lab: Making Plastic From Starch;>Interactivity: The Impact of Synthetics</p>	<p>12. Gather and make sense of information to describe that synthetic materials come from natural resources and impact society.</p>	<p>X</p>					
<p>Atoms and Chemical Reactions SE/TE: Synthetic Materials, 99-102 Impact of Synthetic Materials, 103-104 Case Study: Is Plastic Really So Fantastic?, 106-107 Topic 2 Review and Assess, #17, 108-109</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Lesson 4: Producing Useful Materials>Interactivity: Describe the Impact of Synthetics;>Investigate Lab: Making Plastic From Starch;>Interactivity: The Impact of Synthetics</p>	<p>13. Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p>	<p>X</p>					

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Chemical Reactions					
<p>Structure and Properties of Matter SE/TE: Physical Changes in Matter, 25-26 Chemical Changes in Matter, 27-28</p> <p>Atoms and Chemical Reactions SE/TE: Changing Matter, 79-80 Evidence of Chemical Reactions, 82-83 Lesson 2 Check, #2, 88 Topic 2 Evidence-Based Assessment, 110-111 uDemonstrate Lab, 112-115</p> <p>Realize™ Digital Resources: Structure and Properties of Matter: Introduction to Matter >Lesson 3: Changes in Matter>Inquiry Warm-Up Lab: Is a New Substance Formed?;>uInvestigate Lab: Physical and Chemical Changes;>Quest Check-In Lab: Cinematic Science</p> <p>Atoms and Chemical Reactions: Chemical Reactions >Topic Launch: Chemical Reactions>uConnect Lab: What Happens When Chemicals React?>Lesson 2: Chemical Change>Inquiry Warm-Up Lab: Presto Change-O!;>uInvestigate Lab: Changes in a Burning Candle <i>Reactions)</i></p>	<p>14. Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.</p>	<p>X</p>			

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<p>Atoms and Chemical Reactions SE/TE: Chemical Equations, 91-93 Model It!, 92 Law of Conservation of Mass, 94-95 Topic 2 Evidence-Based Assessment, 110-111</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Lesson 3: Modeling Chemical Reactions>Investigate Lab: Is Matter Conserved?;>Interactivity: Model the Conservation of Mass</p>	<p>15. Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved.</p>	<p>X</p>					
<p>Atoms and Chemical Reactions SE/TE: Quest Kickoff, 66-67 Changes in Energy, 84</p> <p>Realize™ Digital Resources: Atoms and Chemical Reactions: Chemical Reactions >Topic Launch: Chemical Reactions>Quest Kickoff: Hot and Cool Chemistry >Lesson 1: Mixtures and Solutions>Quest Check-In Lab: Energy Salts >Lesson 2: Chemical Change>Quest Check-In Interactivity: Design Your Pack >Lesson 3: Modeling Chemical Reactions>Quest Check-In Lab: Pack Building >Lesson 4: Producing Useful Materials>Quest Check-In Lab: Heat It Up or Ice It Down</p>	<p>16. Undertake a design project to construct, test, and modify a device that either releases or absorbs thermal energy by chemical processes. *</p>	<p>X</p>					

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Earth and Space Sciences: Human Impacts

Changing Earth and Human Activity

SE/TE:

Connect It!, 104

The Human Population, 105

Using Natural Resources, 108-109

Topic 3 Evidence-Based Assessment, 148-149

Realize™ Digital Resources:

Changing Earth and Human Activity: Human Impacts on the Environment

>Lesson 1: Population Growth and Resource

Consumption>Interactivity: Human Population

Growth;>Worksheet: Human Population

Growth;>Investigate Lab: Doubling Time

17. Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

X

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Engineering, Technology, and Applications of Science: Engineering Design

This standard is addressed by labs and activities throughout *Elevate Science 6-8 Modules*. For examples, please see:

Systems, Reproduction, and Growth

SE/TE:

uEngineer It!, 37

uEngineer It!, 123

Changing Earth and Human Activity

SE/TE:

uEngineer It!, 145

18. Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.

X

Digital Resources: The symbol > indicates a click to reach each digital asset on the Realize platform.

<p>This standard is addressed by labs and activities throughout <i>Elevate Science 6-8 Modules</i>. For examples, please see:</p> <p>Structure and Properties of Matter SE/TE: uEngineer It!, 33</p> <p>Changing Earth and Human Activity SE/TE: uEngineer It!, 145</p> <p>Structure and Properties of Matter SE/TE: Quest Kickoff: How can you use science to make special effects?, 2-3</p> <p>Atoms and Chemical Reactions SE/TE: Quest Kickoff: How can you use chemistry to solve a culinary mystery?, 2-3</p> <p>Systems, Reproduction, and Growth SE/TE: Quest Kickoff: How do your body systems interact when you train for your favorite sport?, 112-113</p>	<p>19. Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.</p>	<p>X</p>					
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