

## Science 7 2023-2024

Quarter 1	Quarter 2	Quarter 3	Quarter 4
<p><b>Standard: Structure , Function and Information Processing- MS-LS1-1, 2, 3, 8</b></p> <p><b>Nature of Science</b></p> <ul style="list-style-type: none"> <li>• Observations and Inferences</li> <li>• Scientific Methods</li> <li>• Experimental design</li> </ul> <p><b>Structure and Classification of Living Things</b></p> <ul style="list-style-type: none"> <li>• Living vs Non-living</li> <li>• Organizational Levels</li> <li>• Classification</li> <li>• Cell structure and cell organelles</li> <li>• Viruses</li> </ul> <p><b>Standard: Matter and Energy in Organisms and Ecosystems - MS-LS1-6, 7</b></p> <p><b>Cell Processes</b></p> <ul style="list-style-type: none"> <li>• Chemistry of living things</li> <li>• Cellular transport</li> <li>• Cellular energy, respiration, and photosynthesis</li> </ul>	<p><b>Standard: Growth, Development, and Reproduction of Organisms- MS-LS1-3, 4, 5, MS-LS3-1, 2, 5 MS-LS4-5</b></p> <p><b>Cell Reproduction</b></p> <ul style="list-style-type: none"> <li>• Mitosis</li> <li>• Asexual reproduction</li> <li>• Meiosis</li> <li>• Sexual Reproduction</li> <li>• DNA</li> </ul> <p><b>Heredity</b></p> <ul style="list-style-type: none"> <li>• Genetics</li> <li>• Genetic variation</li> <li>• Genetic technologies</li> </ul> <p><b>Regulation and Reproduction</b></p> <ul style="list-style-type: none"> <li>• Endocrine system</li> <li>• Human reproduction</li> <li>• Human life stages</li> </ul> <p><b>State Investigation: Cool It! (December)</b></p>	<p><b>Standard: Structure , Function and Information Processing- MS-LS1-3, 4</b></p> <p><b>Support, Movement, and Responses (Human Systems)</b></p> <ul style="list-style-type: none"> <li>• Skin</li> <li>• Muscular system</li> <li>• Skeletal system</li> <li>• Nervous system</li> </ul> <p><b>Standard: Matter and Energy in Organisms and Ecosystems - MS-LS1-6, 7 MS-LS2-1, 3, 4 and Standard: Interdependent Relationships in Ecosystems - MS-LS2-2, 5</b></p> <p><b>Ecosystems and Their Interactions</b></p> <ul style="list-style-type: none"> <li>• Environment</li> <li>• Interactions among organisms</li> <li>• Matter and energy (Smithsonian program ~40-50 days)</li> </ul>	<p><b>Ecosystems and Their Interactions Continued (into Q4)</b></p> <p><b>Standard: Natural Selection and Adaptations - MS-LS4-1, 2, 3, 4, 6</b></p> <p><b>Adaptations Over Time</b></p> <ul style="list-style-type: none"> <li>• Evolution</li> <li>• Natural selection</li> <li>• Fossil record</li> <li>• Embryology</li> </ul> <p><b>Review for NYS Investigation</b></p> <ul style="list-style-type: none"> <li>• Microscopes</li> </ul> <p><b>State Investigation: It's Alive! (April)</b></p>