

## MS Science Year at a Glance Resource 2016-2017: 1st Nine Weeks 08/22 – 10/28

Date	6	7	8	Physical Science
8/22 – 8/26	<b>Weather and the Practice of Science</b> Scientific Investigations/Models <i>Pretest</i>	<b>Heat and the Practice of Science</b> Scientific Processes in the concept of heat <i>Pretest</i>	<b>Matter and the Practice of Science</b> Methods in Science – Studying Matter <i>Baseline Assessment</i>	<b>Introduction to Physical Science</b> Lab Safety, Scientific Method and Process <i>Pretest</i>
8/29 – 9/2	<b>Weather and the Practice of Science;</b> <b>Natural Disasters and Their Effects on Floridians</b>	<b>Heat Energy</b> Heat and Temperature	<b>Properties of Matter</b>	<b>Measurement</b> Metric units, practice measuring, unit conversions, data analysis, graphing
9/6 – 9/09	<b>Natural Disasters and Their Effects on Floridians</b>	<b>Heat Energy</b> Heat Flow <i>Unit 1 Assessment</i>	<b>Properties of Matter</b> Gravitational Force/ Weight vs. Mass	<b>Measurement</b> Mass, Volume, Density Relationship, Density of Earth/ Solar System objects
9/12 – 9/16	<b>Thermal Energy Transfer</b> Methods of Heat Transfer in Earth	<b>Heat Energy</b> Change of State/ Molecular motion <b>Conservation of Energy and Energy Transformations;</b> Forms of Energy	<b>Properties of Matter</b> Ways to Measure Matter - Density/Mass/Volume Relationship	<b>Motion</b> Motion, Position, Speed, Velocity
9/19 – 9/23	<b>Thermal Energy Transfer</b> Water Cycle <i>Unit 1 Assessment</i>	<b>Conservation of Energy and Energy Transformations</b> Energy Transformations	<b>Changes in Matter</b> Particulate Nature, Physical and Chemical Changes	<b>Motion</b> Acceleration, Motion graphs, Solar System objects' motion
9/26 – 9/30	<b>Weather and Climate</b> Atmosphere and Convection currents (winds)	<b>Conservation of Energy and Energy Transformations</b> Law of Conservation of Energy <i>Unit 2 Assessment</i>	<b>Changes in Matter</b> Law of Conservation of Mass	<b>Forces</b> Fundamental forces, Equilibrium (Net force)
10/4 – 10/7	<b>Weather and Climate</b> Global Patterns that Affect Weather <i>Unit 2 Assessment</i>	<b>Electromagnetic Spectrum</b> Properties of Waves	<b>Changes in Matter</b> Temperature's Influence on Chemical Changes <b>Atoms;</b> Atomic Theory <i>Unit 2 Assessment</i>	<b>Forces</b> Newton's Laws of Motion
10/10 – 10/14	<b>Weather and Climate</b> Weather vs. Climate <i>Unit 2 Assessment</i>	<b>Electromagnetic Spectrum</b> Types of radiation from the Sun (ES)	<b>Atoms</b> Atomic Structure and Motion	<b>Forces</b> Law of Universal Gravitation, Tides
10/17 – 10/21	<b>Atmosphere and Spheres of the Earth</b> Earth's Spheres; Composition and Function of the Atmosphere	<b>Electromagnetic Spectrum</b> Wavelength and Frequency relationship on E Spectrum <b>Properties of Waves</b> Mechanical vs Electromagnetic Waves	<b>Atoms</b> Modifications to Atomic Models  <b>Elements and the Periodic Table</b> Elements	<b>Forces</b> Mass vs. Weight  <b>Work</b> Work and Power
10/24 – 10/28	<b>Atmosphere and Spheres of the Earth</b> Human Activity and Climate Change	<b>Properties of Waves</b> Light Properties	<b>Elements and the Periodic Table</b> Groups (Shared properties)	<b>Work</b> Simple machines



## MS Science Year at a Glance Resource 2016-2017: 2<sup>nd</sup> Nine Weeks 10/31 – 01/20

Date	6	7	8	Physical Science
10/31 – 11/04	<b>Landforms and Changes to the Geosphere</b> Weathering	<b>Properties of Waves</b> Wave Speed in Different Materials <i>Unit 3 Assessment</i>	<b>Elements and the Periodic Table</b> Periods <b>Combining Atoms</b> ; Compounds	<b>Energy</b> Forms of Energy
11/07 – 11/10	<b>Landforms and Changes to the Geosphere</b> Erosion and Deposition <i>Unit 3 Assessment</i>	<b>Layers of Earth</b> <i>QSBA 1 Assessment</i>	<b>Combining Atoms</b> Pure Substances and Mixtures	<b>Energy</b> Energy Transformations <i>QSBA 1 Assessment</i>
11/14 – 11/18	<b>Landforms and Changes to the Geosphere</b> Types of Landforms <i>QSBA 1 Assessment</i>	<b>Plate Tectonics</b> Continental Drift	<b>Combining Atoms</b> Solutions <i>Unit 3 Assessment</i>	<b>Energy</b> Energy Resources, Energy Pyramid & Trophic Levels <i>QSBA 1 Assessment</i>
11/21 – 11/22	<b>Transformation between Potential &amp; Kinetic Energy</b> Potential Energy	<b>Plate Tectonics</b> Describing Tectonic Plate Movement	<b>Photosynthesis &amp; Cellular Respiration</b> Cell Structure Overview	<b>Waves: Sound and Light</b> Wave Parts, Properties of Sound
11/28 – 12/02	<b>Transformation between Potential &amp; Kinetic Energy</b> Kinetic Energy	<b>Plate Tectonics</b> Explaining Plate Movement through Heat Flow	<b>Photosynthesis &amp; Cellular Respiration</b> Photosynthesis	<b>Waves: Sound and Light</b> Sound waves, Electromagnetic Spectrum and Optics
12/05 – 12/09	<b>Transformation between Potential &amp; Kinetic Energy</b> Law of Conservation of Energy, Law vs. Theory	<b>Plate Tectonics;</b> <b>Rock Cycle and the Processes that Shape Earth's Surface</b> Processes within Rock Cycle <i>Unit 4 Assessment</i>	<b>Photosynthesis &amp; Cellular Respiration</b> Cell Respiration, Law of Conservation of Mass & Energy	<b>Waves: Sound and Light</b> Properties of Light <b>Matter</b> ; Atoms, elements and compounds, Phases of Matter
12/12 – 12/16	<b>Motion of Objects</b> Measuring Speed and Distance	<b>Rock Cycle and the Processes that Shape Earth's Surface</b> Formation of Rocks (types)	<b>Cycles of Matter</b> Overview of Cycles in Nature, Carbon Cycle	<b>Matter</b> Classification of Matter, Properties of Matter
12/19 – 12/23	<b>Motion of Objects</b> Constructing and Analyzing Distance vs. Time Graphs <i>Unit 4 Assessment</i>	<b>Rock Cycle and the Processes that Shape Earth's Surface</b> Landforms & Florida's Surface	<b>Cycles of Matter</b> Conservation of Matter and Energy in Earth's Systems <i>Unit 4 Assessment</i>	<b>Temperature</b> Conversions, Heat and Thermal Energy
01/09 – 01/13	<b>Types of Forces</b> Contact Forces	<b>Rock Cycle and the Processes that Shape Earth's Surface;</b> <b>Age of Earth/Geological Time</b> Measuring the Age of Earth	<b>Objects in the Universe</b> Objects in Space	<b>Temperature</b> Specific Heat
01/17 – 01/20	<b>Types of Forces</b> Forces Acting at A Distance	<b>Age of Earth/Geological Time</b> Evidence of Changes to Earth Over Time (Fossil Record)	<b>Objects in the Universe</b> Hierarchical Relationships	<b>Temperature</b> Transfer of Heat, Solar Characteristics and Influences, Plate Tectonics <b>Behavior of Gases</b> Atmosphere and Pressure

