

MS Science Year at a Glance 2017-2018: 1st Nine Week 08/22 – 10/28
REVISED for HURRICANE DAYS

Date	6	7	8	Physical Science
8/21 – 8/25	Weather and the Practice of Science Scientific Investigations/Models	Heat and the Practice of Science Scientific Processes in the concept of heat	Matter and the Practice of Science Methods in Science – Studying Matter	Introduction to Physical Science Lab Safety, Scientific Method and Process
8/28 – 9/1	Weather and the Practice of Science; Natural Disasters and Their Effects on Floridians	Heat Energy Heat and Temperature	Properties of Matter	Measurement Metric units, practice measuring, unit conversions, data analysis, graphing
9/5 – 9/08	Natural Disasters and Their Effects on Floridians	Heat Energy Heat Flow; Change of State/ Molecular motion	Properties of Matter Gravitational Force/ Weight vs. Mass	Measurement Mass, Volume, Density Relationship, Density of Earth/ Solar System objects
9/11 – 9/15	No School	No School	No School	No School
9/18 – 9/22	Thermal Energy Transfer Methods of Heat Transfer in Earth; Water Cycle	Conservation of Energy and Energy Transformations Forms of Energy; Energy Transformations	Properties of Matter Ways to Measure Matter - Density/Mass/Volume Relationship	Motion Motion, Position, Speed, Velocity
9/25 – 9/29	Weather and Climate Atmosphere and Convection currents (winds)	Conservation of Energy and Energy Transformations Energy Transformations; LOC of Energy <i>Unit 2 Assessment</i>	Changes in Matter Particulate Nature, Physical and Chemical Changes	Motion Acceleration, Motion graphs, Solar System objects' motion
10/3 – 10/6	Weather and Climate Global Patterns that Affect Weather	Electromagnetic Spectrum Properties of Waves; Types of radiation from the Sun (ES)	Changes in Matter Law of Conservation of Mass; Temperature's Influence on Chemical Changes	Forces Fundamental forces, Equilibrium (Net force)
10/09 – 10/13	Weather and Climate Weather vs. Climate <i>Unit 2 Assessment</i> Atmosphere & Spheres of the Earth Earth's Spheres	Electromagnetic Spectrum Wavelength and Frequency relationship on E Spectrum; Mechanical vs Electromagnetic Waves	Atoms; Atomic Theory; Atomic Structure and Motion <i>Unit 2 Assessment</i>	Forces Newton's Laws of Motion
10/16 – 10/20	Atmosphere & Spheres of the Earth Composition and Function of the Atmosphere	Properties of Waves Light Properties	Atoms Modifications to Atomic Models Elements and the Periodic Table Elements	Forces Law of Universal Gravitation, Tides Mass vs. Weight Work Work and Power
10/23 – 10/26	Atmosphere & Spheres of the Earth Human Activity and Climate Change	Properties of Waves Wave Speed in Different Materials	Elements and the Periodic Table Groups (Shared properties)	Work Simple machines

MS Science Year at a Glance 2017-2018: 2nd Nine Week 10/30 – 01/18

Date	6	7	8	Physical Science
10/30 – 11/03	Landforms and Changes to the Geosphere Weathering	Layers of Earth Crust and Lithosphere; Mantle; Core <i>QSBA 1 / Unit 3 Assessment</i>	Elements and the Periodic Table Periods	Energy Forms of Energy
11/06 – 11/09	Landforms and Changes to the Geosphere Erosion and Deposition <i>QSBA 1 / Unit 3 Assessment</i>	Layers of Earth Comparing Layers of the Earth <i>QSBA 1 Assessment</i> Plate Tectonics Continental Drift	Combining Atoms Compounds; Pure Substances and Mixtures	Energy Energy Transformations <i>QSBA 1 Assessment</i>
11/13 – 11/17	Landforms and Changes to the Geosphere Types of Landforms <i>QSBA 1 / Unit 3 Assessment</i>	Plate Tectonics Continental Drift	Combining Atoms Pure Substances and Mixtures; Solutions <i>Unit 3 Assessment</i>	Energy Energy Resources, Energy Pyramid & Trophic Levels <i>QSBA 1 Assessment</i>
11/20 – 11/21	Transformation between Potential & Kinetic Energy Potential Energy	Plate Tectonics Describing Tectonic Plate Movement	Photosynthesis & Cellular Respiration Cell Structure Overview	Waves: Sound and Light Wave Parts, Properties of Sound
11/27 – 12/01	Transformation between Potential & Kinetic Energy Kinetic Energy	Plate Tectonics Explaining Plate Movement through Heat Flow	Photosynthesis & Cellular Respiration Photosynthesis; Cell Respiration	Waves: Sound and Light Sound waves, Electromagnetic Spectrum and Optics
12/04 – 12/08	Transformation between Potential & Kinetic Energy Law of Conservation of Energy, Law vs. Theory	Rock Cycle and the Processes that Shape Earth's Surface Processes within Rock Cycle <i>Unit 4 Assessment</i>	Photosynthesis & Cellular Respiration Cell Respiration; Law of Conservation of Mass & Energy	Waves: Sound and Light Properties of Light Matter ; Atoms, elements and compounds, Phases of Matter
12/11 – 12/15	Motion of Objects Measuring Speed and Distance	Rock Cycle and the Processes that Shape Earth's Surface Formation of Rocks (types)	Cycles of Matter Overview of Cycles in Nature, Carbon Cycle	Matter Classification of Matter, Properties of Matter
12/18 – 12/22	Motion of Objects Constructing and Analyzing Distance vs. Time Graphs <i>Unit 4 Assessment</i>	Rock Cycle and the Processes that Shape Earth's Surface Landforms & Florida's Surface; Age of Earth/Geological Time Measuring the Age of Earth	Cycles of Matter Conservation of Matter and Energy in Earth's Systems <i>Unit 4 Assessment</i> Objects in the Universe Objects in Space	Temperature Conversions, Heat and Thermal Energy
01/08 – 01/12	Types of Forces Contact Forces	Age of Earth/Geological Time Measuring the Age of Earth	Objects in the Universe Objects in Space	Temperature Specific Heat; Transfer of Heat
01/16 – 01/18	Types of Forces Forces Acting at A Distance	Age of Earth/Geological Time Evidence of Changes to Earth Over Time (Fossil Record)	Objects in the Universe Hierarchical Relationships	Temperature Solar Characteristics and Influences, Plate Tectonics Behavior of Gases Atmosphere and Pressure

MS Science Year at a Glance 2017-2018: 3rd Nine Week 1/22/18 – 3/22/18

Date	6	7	8	Physical Science
1/22 – 1/26	Law of Universal Gravitation Gravitational Force <i>QSBA 2</i>	Evidence of Species Change Evidence of Scientific Theory of Evolution <i>QSBA 2</i>	Objects in the Universe Law of Universal Gravitation and the Formation of Stars	Atomic Structure Structure of the Atom <i>QSBA 2</i>
1/29 – 2/2	Law of Universal Gravitation Mass vs. Weight and the relationship between gravity and mass and distance	Evidence of Species Change Adaptations and Extinction	Stars and the Sun Properties of Stars H-R Diagrams	Atomic Structure Atomic Models
2/5 – 2/09	Forces and Motion Types of forces Effects of Unbalanced Forces on an Object	Natural Selection Variations of traits and Diversity of Organisms	Stars and the Sun Properties of Stars H-R Diagrams	Atomic Structure Periodic Table
2/12 – 2/16	Forces and Motion Effects of Unbalanced Forces on an Object <i>Unit 5 Assessment</i>	Natural Selection Environmental Factors and changing in conditions	Stars and the Sun The Sun's Characteristics and Electromagnetic Spectrum <i>Unit 5 Assessment</i>	Compounds Chemical bonds and electrons, Chemical Formulas
2/20 – 2/23	Structure and Function of Living Things Hierarchical Organization of Organisms, Cell Theory and Homeostasis	Natural Selection Reproductive Fitness and species change overtime <i>Unit 6 Assessment</i>	Objects in our Solar System Models of the Solar System and Earth's Properties	Compounds Chemical bonds and electrons, Chemical Formulas
2/26 – 3/2	Cell Structure and Organelles Prokaryotic and Eukaryotic Cells	Relationships in Ecosystems Symbiotic Relationships and Food Webs	Objects in our Solar System Properties of Sun, planets and moons compared to Earth	Compounds Building Blocks of Life, Organic Compounds and Macromolecules
3/5 – 3/09	Cell Structure and Organelles Eukaryotic Organelles and Plant Specific Organelles <i>Unit 6 Assessment</i>	Relationships in Ecosystems Food Webs and Limiting Factors	The Sun, Earth, and Moon System Earth's Movement in Space and Seasons	Chemical Reactions Physical and Chemical changes Types of Reactions
3/12 – 3/16	Classification of Living Things Linnaean Classification and Characteristics of Domains	Human Impact on Earth Resources and Biodiversity	The Sun, Earth, and Moon System Tides, Phases of the Moon and Eclipses	Chemical Reactions Photosynthesis, Cellular Respiration and Biogeochemical Cycles
3/19 – 3/22	Classification of Living Things Eukaryotic Kingdoms and Scientific Names <i>Unit 7 Assessment</i>	Human Impact on Earth Pollution and Human Impact on the Everglades <i>Unit 7 Assessment</i>	The Sun, Earth, and Moon System Tides, Phases of the Moon and Eclipses <i>Unit 6 Assessment</i>	Solutions Types of Mixtures and Solutions Acids and Bases

MS Science Year at a Glance 2017-2018: 4th Nine Week 4/02/18 – 6/07/18

Date	6	7	8	Physical Science
3/26 – 3/30	Human Body Systems Major Body Systems QSBA 3	DNA, Chromosomes and Heredity DNA and review of Cell Structure QSBA 3	Data-Based Benchmark Reinforcement: Earth, Space & Physical Sciences	Energy and Chemical Reactions Types of Reactions Required energy and Reaction systems QSBA 3
4/2 – 4/6	Human Body Systems Erosion and Deposition	DNA, Chromosomes and Heredity <i>DNA and Reproduction</i>	Data-Based Benchmark Reinforcement: Earth, Space & Physical Sciences	Energy and Chemical Reactions Reactions rates and equilibrium
4/16 – 4/20	Human Body Systems Major Body Systems Interactions and Homeostasis	Genetic Traits and Heredity Mendelian Genetics Phenotypes and Genotypes	Data-Based Benchmark Reinforcement: Physical Science & Life Sciences	Data-Based Benchmark Reinforcement
4/23 – 4/27	Transformation between Potential & Kinetic Energy Body Systems Interactions, Homeostasis and effect of drugs on body systems	Genetic Traits and Heredity Genetic Probabilities with Punnett Squares and Pedigrees	Data-Based Benchmark Reinforcement: Physical Science & Life Sciences	Data-Based Benchmark Reinforcement
4/30 – 5/4	Pathogens Comparison Infectious agents	Biotechnology Artificial Selection, Genetic Engineering and Cloning	Human Growth and Development	Electricity-Static Current Concept of electricity, conductors semiconductors and insulators
5/7 – 5/11	Pathogens Comparison Disease Prevention and STIs Unit 6 Assessment	Biotechnology Impact on individuals, society and the environment Unit 8 Assessment	Human Growth and Development	Electricity-Static Current Electric circuits and systems
5/14 – 5/18	Substance Abuse, Health and Decision Making	Health and Disease Prevention	Human Growth and Development	Magnetism Interactions of Magnets
5/21 – 5/25	Human Growth and Development	Human Growth and Development	Substance Abuse-Personal Health-Relationships	Magnetism Electromagnets, motors and generators
5/29 – 6/1	Human Growth and Development	Human Growth and Development	Substance Abuse-Personal Health-Relationships	Behavior of Gases Gas Laws
6/4 – 6/7	Types of Forces Forces Acting at A Distance	Human Growth and Development	Substance Abuse-Personal Health-Relationships	Biology Ramping Up