

| MONTH | PE | Content | Details |
|--------------------------------------|---|---|---|
| August 23- September 22 | ALL | Lab Safety Tools & Measurement Scientific Method Engineering Method Data Collection and Analysis | <i>Safety Contract, Safety Symbols SI Base Units, Conversions, Tools/Procedures for Measuring, Scientific Method, Engineering Method, Hypothesis (If, Then), Control Group, Experimental Group, Dependant Variable, Independant Variable, DRY MIX, Data Collection, Graphing, Types of Graphs, Analysis, Conclusion</i> |
| September 25- November 21 | MS-PS1-3 MS-PS1-5 MS-PS1-6 MS-LS1-7 | Structure and Properties of Matter Chemical Reactions in Organisms Chemical Reaction Design | <i>Physical and chemical properties of substance, atoms regroup to form molecules in chemical reactions, different properties of reactants, conservation of matter in chemical reactions, reactants make products or new molecules, exothermic and endothermic reactions</i> |
| November 27- December 21 | MS-PS4-1 MS-PS4-2 MS-PS4-3 | Waves and their Applications Wave Transmission Digitized Signals | <i>waves have patterns, wavelength, frequency, amplitude, waves in mediums, reflection, absorption, transmission, light travels in straight lines, transparent materials can bend light, brightness, color, light waves travel in space, sound waves require mediums, digitized signal encode info and transmit more reliable</i> |
| December | All above. | OERB Curriculum SEMESTER TEST | <i>All Above</i> |
| January 8-February 16 | MS-ESS1-4 MS-ESS2-1 MS-ESS2-2 MS-ESS2-3 MS-ESS3-2 | History of Planet Earth Earth's materials and Systems Waters movements on land and underground formations History of Earth Plate Tectonics Large Scale Plate Tectonics Interaction Using history to forecast natural disasters and future events | <i>Interpret Geological Time Scale, Analysis of rock and fossils for relative dating, Energy flow results in Earth processes, Earth's planet systems cycle, Earth's hot interior derived from the sun, energy from Earth produces physical and chemical changes in Earth's materials and living organisms, Interactions within Earth happen globally to determine past and future scales, movement of plate tectonics occur on seafloor</i> |

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| February 20-March 8 | MS-LS4-1 MS-LS4-2 | Ancestry and Diversity | <i>fossils place chronological order through location and sedimentary layers, existence, extinction, change of life forms through history of life on earth</i> |
| March 19-April 26 | MS-PS2-1 MS-PS2-2 | Newtons 3rd Law Motion Mass Force | <i>force on objects is equal and opposite, motion is the sum of the forces acting on object, greater the mass- greater the force, the larger the force, motion of an object is determined by the sum of the forces acting on it,</i> |
| April 30-May 18 | MS-ESS3-1 MS-ESS3-4 | Natural Resources Human Impacts on Earth | <i>Humans dependency on land, ocean, biosphere for resources, resources unevenly distributed around the planet due to past geologic processes, many resources are nonrenewable over human lifetime, as human populations increase- consumption of natural resources increase, unless new technologies and activities are engineered differently- the negative impacts on Earth will continue</i> |
| May 21-May 23 | ALL | Review for Semester Test Remediate standards if needed Intro to STEM | |