

Month	Content	Skills
August/September	Geologic Time	<ul style="list-style-type: none"> • Develops a general concept Earth's age • Understands fossils and how formed • Finds ways scientists use to determine age of rocks • Describes the geologic time scale and why it is used • Identifies characteristics of geologic time eras and periods • Identifies major events in Earth's history • Describes the major developments of life on Earth
September/October	Geology General Study 2.1, 2.2, 2.3, 2.5, 2.6	<ul style="list-style-type: none"> • Describes the main characteristics of the earth's layers. • Describes the activities of plate tectonics. • Interprets diagrams representing the earth's interior structure. • Describes the theory of continental drift, including Pangea. • The characteristics of continental plates and oceanic plates • Identifies and describes types of plate movement and structures that are formed • Describes the different forms of mountain building as related to plate tectonics and faults

Month	Content	Skills
November	Volcanoes	<ul style="list-style-type: none">• Identifies the three different types of volcanoes• Describes the different forms of eruptions and the lava associated with each• Lists the characteristics of volcanic materials• Describes the effects of volcanic activity on the environment.• Describes the relationship between volcanic activity, earthquakes and mountain building.
November/December	Earthquakes 2.2, 2.5, 2.6	<ul style="list-style-type: none">• Describes the main causes of earthquakes• Describes the relationship between earthquakes and oceanic wave action. Identifies three types of seismic waves• Describes how seismographs measure and record intensities of earthquakes• Knows ways of measuring the intensities of earthquakes• Describes how the study of earthquakes provides information about the structure of the earth's interior

Month	Content	Skills
January	Minerals 2.2, 2.5, 2.6	<ul style="list-style-type: none">• Describes characteristics and properties common to minerals• Knows structural characteristics by which minerals are classified and named.• Identifies minerals by testing their chemical and physical properties <ul style="list-style-type: none">• Describes the rock cycle• Identifies main characteristics of igneous, sedimentary and metamorphic rocks• Describes how igneous, sedimentary and metamorphic rocks are formed.
January	Rocks 2.2, 2.5, 2.6	

Month	Content	Skills
February/ March	Oceanography 2.2, 2.3, 2.4, 2.5, 2.6	<ul style="list-style-type: none">• Understands oceanography as the study of ocean life forms• Knows some historic and current contribution of oceanographers and institutions to the field of oceanographic research• Identifies topographical features on the ocean floor that are similar to those on land.• Describes the main characteristics of major structures of ocean basins (e.g., rises, abyssal plains, trenches, etc.)• Describes the relationships between currents, sediments, and structures of ocean basins• Describes the influence that oceans have on temperature and climate of the earth.• Describes the effects of the major ocean currents on the climate and topography of adjacent land masses• Describes the common characteristics, which distinguish seawater from fresh water.• Identifies the major layers of ocean water and ocean zones.• Describes characteristics of ocean zones and adaptations of life forms for different zones.• Defines a thermocline• Identifies the main causes of ocean waves.• Identifies the forces, which are responsible for tides on the earth.

Month	Content	Skills
April/May	<ul style="list-style-type: none">• Seasons• Day (rotation)• Year (revolution)• Stars• Constellations• Sun• Galaxies	<ul style="list-style-type: none">• Model how Earth's tilt on its axis and its revolution around the sun creates seasons.• Construct a model a constellation.• Investigate phenomena on Earth's surface caused by the sun's energy.• Design and conduct an experiment to show how seasons are caused by the tilt of the Earth's axis.• Describe chemical composition of Sun• Identify characteristics of different types of stars• Explain the life of a star• Identify characteristics of different types of galaxies

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<p>September – December</p>	<p>Develops skills used in gathering, organizing, analyzing and applying information and or concepts</p> <p>2.1, 2.2, 2.3, 2.4, 2.5, 2.6</p>	<ul style="list-style-type: none"> • Observes objects and phenomena • Identifies, describes and classifies the properties of objects and phenomena • Uses common materials appropriately for laboratory experiments or demonstrations • Knows the standard units of measurement in both the metric and English units • Measures the size, mass and volume of objects • Recognizes cause and effect relationships • Uses scientific method <ul style="list-style-type: none"> - Makes inferences - Forms hypotheses - Determines procedures - Follows procedures - Control Variables - Collects and records data - Reports data graphically - Interprets data, graphs, tables etc. - Estimates results - Predicts outcomes - Draws conclusions - Makes deductions - Makes generalizations from obtained data - Organizes information in a written form 			<p>Completes and Science Fair project following the scientific method.</p> <p>Completes various lab assignments.</p>