

6 TH GRADE BSIPS	CONTENT POWER OBJECTIVES
<p>Skill 1: Scientific Method</p> <ol style="list-style-type: none"> Conduct scientific investigations identifying controls and variables Conduct a scientific investigation identifying and applying the steps of the scientific method Write a proper scientific hypothesis and conclusion. 	<p><u>Hydrology:</u></p> <ol style="list-style-type: none"> Compare and contrast the major components and the resident time of the hydrological cycle (e.g. precipitation/transpiration, condensation/evaporation, run-off/ground water). Illustrate the major components the hydrological cycle. Identify examples of erosion and weathering (mechanical and physical) in nature. <p><u>Meteorology:</u></p> <ol style="list-style-type: none"> Explain how the water cycle influences weather and climate. Distinguish the difference in the types of clouds and how they relate to weather predictions. Analyze weather patterns and to predict weather.
<p>Skill 2: Technical Information</p> <ol style="list-style-type: none"> Accurately follow the technical procedures for an investigation Use appropriate scientific terminology to communicate information/conclusions (individual/groups) from an investigation. Construct and interpret a data table during a scientific investigation. 	<p><u>Geology</u></p> <ol style="list-style-type: none"> Identify the geological events(earthquakes, volcanoes,) that occurs at plate boundaries. Identify the processes occurring in the formation of sedimentary, igneous, and metamorphic rocks. Investigate the earth’s renewable and non-renewable resources and the impact of earth’s cycles on these resources. <p><u>Force/Motion:</u></p> <ol style="list-style-type: none"> Conduct experiments on the three laws of motion and identify examples in nature. Describe the effects of a force (gravity, friction) on the movement, speed, and direction of an object.
<p>Skill 3: Classification</p> <ol style="list-style-type: none"> Identify <i>properties</i> by which a set of objects, organisms, events can be ordered Use observable <i>properties</i> to place objects, organisms, events into a classification system 	<p><u>Matter:</u></p> <ol style="list-style-type: none"> Label the parts of an atom (proton, neutron, and electron) and the type of charge each part possesses. Identify physical properties of an object (shape, size, color, texture, temperature, mass, volume) Give examples of physical changes that can occur for an object. Measure physical properties of matter (shape, size, color, texture, temperature, mass, volume) Identify states of matter and explain how temperature will affect changes in state.
<p>Skill 4: Measurement/Tools</p> <ol style="list-style-type: none"> Compare metric units of measurement (mg, g, kg) Measure precisely using metric measurement tools (graduated cylinder, beaker, triple beam balance, ruler, meter stick, and thermometer) Use appropriate tools for taking volume, temperature, and linear measurements in a scientific investigation Record measurement data using appropriate units 	<p><u>Interdependence of organisms/environment</u></p> <ol style="list-style-type: none"> Compare and contrast the roles of organisms in the environment (autotroph/heterotroph/decomposer, predator/prey, Construct a food web/food chain within a specific ecosystem Explain how populations are affected by the availability of matter and energy in an ecosystem. <p><u>Organization within Living Organisms</u></p> <ol style="list-style-type: none"> Label the organs within the human body. Explain how each of the five major organ systems (digestive, circulatory, respiratory, excretory, nervous) is necessary to sustain life. Explain the relationship among the five major organ systems. Identify function of the major organs within each system.