

NJCCCS Standards:

STANDARD 5.8 (EARTH SCIENCE) ALL STUDENTS WILL GAIN AN UNDERSTANDING OF THE STRUCTURE, DYNAMICS, AND GEOPHYSICAL SYSTEMS OF THE EARTH.

By the end of **Grade 6 & 8**, students will:

<p>A</p> <p>Earth's Properties and Materials</p>	<p>By the end of Grade 4, students will:</p> <ol style="list-style-type: none">1. Observe that most rocks and soils are made of several substances or minerals.2. Observe that the properties of soil vary from place to place and will affect the soil's ability to support life.3. Recognize that fossils provide evidence about the plants and animals that lived long ago and the nature of the environment at that time. <p>(6 & 8) - Reinforce indicators from previous grade level.</p>
<p>B</p> <p>Atmosphere and Water</p>	<ol style="list-style-type: none">1. Describe the composition, circulation, and distribution of the world's oceans, estuaries, and marine environments.2. Describe and illustrate the water cycle. <hr/> <ol style="list-style-type: none">1. Describe conditions in the atmosphere that lead to weather systems and how these systems are represented on weather maps.
<p>C</p> <p>Processes that Shape the Earth</p>	<ol style="list-style-type: none">1. Summarize the process involved in the rock cycle and describe the characteristics of the rocks involved. <hr/> <ol style="list-style-type: none">1. Explain how Earth's landforms and materials are created through constructive and destructive processes.2. Show how successive layers of sedimentary rock and the fossils contained in them can be used to confirm the age, history, changing life forms, and geology of Earth.
<p>D</p> <p>How We Study the Earth</p>	<ol style="list-style-type: none">1. Utilize various tools such as map projections and topographical maps to interpret features of Earth's surface. <hr/> <ol style="list-style-type: none">1. Utilize data gathered from emerging technologies (i.e. geographic information systems (GIS) and global positioning systems (GPS)) to create representations and describe processes of change on the Earth's surface.2. Explain how technology designed to investigate features of the Earth's surface impacts how scientists study the Earth.