

## Grade 5 – Earth & Space Sciences



### Earth's Place in the Universe

Standard	Learning Objective	Clarification Statement
<p><b>5.ESS1.1</b> Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.</p> <p><i>Assessment Boundary: Assessment is limited to relative distances, not sizes, of stars. Assessment does not include other factors that affect apparent brightness (such as stellar masses, age, stage).</i></p>	<p><b>1.0</b> Explain differences in <b>brightness of stars</b>.</p>	Not available.
<p><b>5.ESS1.2</b> Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.</p> <p><i>Assessment Boundary: Assessment does not include causes of seasons.</i></p>	<p><b>2.0</b> Describe <b>patterns of daily changes due to Earth's orbit</b>.</p>	Examples of patterns could include the position and motion of Earth with respect to the sun and selected stars that are visible only in particular months.

### Earth's Systems

Standard	Learning Objective	Clarification Statement
<p><b>5.ESS2.1</b> Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.</p> <p><i>Assessment Boundary: Assessment is limited to the interactions of two systems at a time.</i></p>	<p><b>1.0</b> Describe the way <b>Earth's systems</b> interact.</p>	Examples could include the influence of the ocean on ecosystems, landform shape, and climate; the influence of the atmosphere on landforms and ecosystems through weather and climate; and the influence of mountain ranges on winds and clouds in the atmosphere. The geosphere, hydrosphere, atmosphere, and biosphere are each a system.
<p><b>5.ESS2.2</b> Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.</p> <p><i>Assessment Boundary: Assessment is limited to oceans, lakes, rivers, glaciers, ground water, and polar ice caps, and does not include the atmosphere.</i></p>	<p><b>2.0</b> Describe the <b>distribution of water on Earth</b>.</p>	Not available.

### Earth and Human Activity

Standard	Learning Objective	Clarification Statement
<p><b>5.ESS3.1</b> Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.</p> <p><i>Assessment Boundary: None.</i></p>	<p><b>1.0</b> Explain how communities protect the <b>Earth's resources and environment</b>.</p>	Not available.