

**ADW Grades 6-8**  
**Earth and Space Science Standards**  
**2017**

| <b>EARTH'S PLACE IN THE UNIVERSE</b> | <b>Standard</b>   |
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| <b>SC.6-8.ESS.1-1</b>                | Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and the moon, and seasons.  |
| <b>SC.6-8.ESS.1-2</b>                | Construct explanations for how gravity affects the motion of objects in the solar system and tides on Earth.  |
| <b>SC.6-8.ESS.1-3</b>                | Obtain and communicate information to describe how data from technologies provide information about objects in the solar system and the universe.   |
| <b>SC.6-8.ESS.1-4</b>                | Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6 billion-year-old history.                                       |
| <b>EARTH'S SYSTEMS</b>               | <b>Standard</b>   |
| <b>SC.6-8.ESS.2-1</b>                | Obtain and communicate information about the relative position, density, and composition of Earth's layers and the cycling of matter and energy within and between them.                              |
| <b>SC.6-8.ESS.2-2</b>                | Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of past plate motions.   |
| <b>SC.6-8.ESS.2-3</b>                | Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity.  |
| <b>SC.6-8.ESS.2-4</b>                | Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.   |
| <b>SC.6-8.ESS.2-5</b>                | Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.                             |
| <b>SC.6-8.ESS.2-6</b>                | Construct an explanation based on evidence for how natural processes can change Earth's surface at varying time and spatial scales.   |
| <b>EARTH AND HUMAN ACTIVITY</b>      | <b>Standard</b>   |
| <b>SC.6-8.ESS.3-1</b>                | Construct a scientific explanation based on evidence for how the uneven distributions of Earth's minerals, energy, and groundwater resources are the result of past and current geological processes. |
| <b>SC.6-8.ESS.3-2</b>                | Construct an argument supported by evidence for how increases in consumption of natural resources impact Earth's systems.   |
| <b>SC.6-8.ESS.3-3</b>                | Apply scientific principles to design a method for monitoring and minimizing human impact on the environment.   |
| <b>SC.6-8.ESS.3-4</b>                | Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.  |