

ADW Grades 6-8
Earth and Space Science Standards
2017

EARTH'S PLACE IN THE UNIVERSE	Standard
SC.6-8.ESS.1-1	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.
SC.6-8.ESS.1-2	Construct explanations for how gravity affects the motion of objects in the solar system and tides on Earth.
SC.6-8.ESS.1-3	Obtain and communicate information to describe how data from technologies provide information about objects in the solar system and the universe.
SC.6-8.ESS.1-4	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.
EARTH'S SYSTEMS	Standard
SC.6-8.ESS.2-1	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.
SC.6-8.ESS.2-2	Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of past plate motions.
SC.6-8.ESS.2-3	Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity.
SC.6-8.ESS.2-4	Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.
SC.6-8.ESS.2-5	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.
SC.6-8.ESS.2-6	Construct an explanation based on evidence for how natural processes can change Earth's surface at varying time and spatial scales.
EARTH AND HUMAN ACTIVITY	Standard
SC.6-8.ESS.3-1	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.
SC.6-8.ESS.3-2	Construct an argument supported by evidence for how increases in consumption of natural resources impact Earth's systems.
SC.6-8.ESS.3-3	Apply scientific principles to design a method for monitoring and minimizing human impact on the environment.
SC.6-8.ESS.3-4	Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.