

ADW GRADE 6-8 EARTH AND SPACE SCIENCE STANDARDS: PRIORITY ORDER 2017

ESS.1	Earth's Place in the Universe	Priority*
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.	1
SC.6-8.ESS.1-2	Construct explanations for how gravity affects the motion of objects in the solar system and tides on Earth.	2
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.	2
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.	3

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ESS.2	Earth's Systems	Priority*
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.	1
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.	1
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.	1
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.	2
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.	2
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.	3

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ESS.3	Earth and Human Activity	Priority*
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.	1
SC.6-8-ESS.3-2	Construct an argument supported by evidence for how increases in consumption of natural resources impact Earth's systems.	2
SC.6-8.ESS.3-3	Apply scientific principles to design a method for monitoring and minimizing human impact on the environment.	2
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.	3
	*Priority of Standards: Priority 1: standards that every student is required to achieve by the end of grade 8. Priority 2: standards that students should be able to achieve by the end of grade 8, given sufficient instructional time. Priority 3: standards that support Tier 1 and 2 standards, but that may be omitted if time in the curriculum is insufficient	

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