

# Middle School Earth and Space Science 2016

Standards & Units	Sept.	Nov.	Jan.	March	May
NJ Core Curriculum Content Standards > Science Arranged by Topic > Middle School Earth and Space Sciences(2014)					
{SCI.MS} Weather and Climate					
<b>Grade 6, Science, Unit 3, Weather and Climate</b>					
{SCI.MS-ESS2-6} 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>Grade 6, Science, Unit 3, Weather and Climate</b>					
{SCI.MS-ESS2-5} Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.					
<b>Grade 6, Science, Unit 3, Weather and Climate</b>					
{SCI.MS-ESS3-5} Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.					
<b>Grade 6, Science, Unit 3, Weather and Climate</b>					
{SCI.MS} Human Impacts					
{SCI.MS-ESS3-4} Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.					
<b>Grade 8, Science, Unit 5, Human Impact &amp; Capstone Engineering Design Challenge</b>					
{SCI.MS-ESS3-3} Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.					
<b>Grade 8, Science, Unit 5, Human Impact &amp; Capstone Engineering Design Challenge</b>					
{SCI.MS-ESS3-2} Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.					
<b>Grade 8, Science, Unit 5, Human Impact &amp; Capstone Engineering Design Challenge</b>					
{SCI.MS} History of Earth					
{SCI.MS-ESS1-4} 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.					
<b>Grade 6, Science, Unit 1, History of Earth</b>					
{SCI.MS-ESS2-3} Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions.					
<b>Grade 6, Science, Unit 1, History of Earth</b>					
{SCI.MS-ESS2-2} Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales.					
<b>Grade 6, Science, Unit 1, History of Earth</b>					
{SCI.MS} Space Systems					
{SCI.MS-ESS1-2} Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.					
<b>Grade 6, Science, Unit 5, Space Systems</b>					
{SCI.MS-ESS1-3} Analyze and interpret data to determine scale properties of objects in the solar system.					
<b>Grade 6, Science, Unit 5, Space Systems</b>					
{SCI.MS-ESS1-1} Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.					
<b>Grade 6, Science, Unit 5, Space Systems</b>					
{SCI.MS} Earth's Systems					
<b>Grade 6, Science, Unit 2, Earth's Systems</b>					
{SCI.MS-ESS2-1} Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.					
<b>Grade 6, Science, Unit 2, Earth's Systems</b>					
{SCI.MS-ESS3-1} Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.					
<b>Grade 6, Science, Unit 2, Earth's Systems</b>					
{SCI.MS-ESS2-4} 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>Grade 6, Science, Unit 2, Earth's Systems</b>					