

*****NOTE: Skill Focus starts with a verb. Usually listed in the indicator with the standards. See [NJSL Science](#).

Grade 6/ Science/ Unit 1 Earth's Place in the Universe			
Time Frame	Content Focus	Skill Focus	Standards
4 days	Universe & Big Bang Theory	Explore the objects in our solar system and obtain the data that support the theories explaining the formation and evolution of the universe.	MS-ESS1-1
3 days	Gravity	Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.	MS-ESS1-2
2 days	Galaxies	Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system	MS-ESS1-2
3 days	Life Cycle of a Star	Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system	MS-ESS1-2
3 days	Planets	Analyze and interpret data to determine scale properties of objects in the solar system.	MS-ESS1-3
3 days	Moon Phases	Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns	MS-ESS1-1

		of lunar phases, eclipses of the sun and moon, and seasons.	
4 days	Eclipses and Seasons	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.	MS-ESS1-1

Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> ● STEM projects ● Science Centers ● Discussions ● Quizzes ● Student Responses ● Entrance/Exit Slips 	<ul style="list-style-type: none"> ● Unit Test
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> ● 	<ul style="list-style-type: none"> ● NewsELA ● Science Exploration Centers ● Online Resources ● 6th Grade Science Google Drive

Unit 1 Appendix

Grade 6/ Science/ Unit 2 Earth's Systems

Time Frame	Content Focus	Skill Focus	Standards
4 days	Continental Drift, Layers of the Earth and Plate Tectonics Theory	Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions.	MS-ESS2-3
2 days	Volcanoes	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales	MS-ESS2-2
4 days	Earthquakes	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales	MS-ESS2-2
2 days	Tsunamis	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales	MS-ESS2-2
3 days	Rock Cycle and Soil Formation	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales Construct a scientific explanation based on evidence from rock strata for how the geological time scale is used to organize Earth's 4.6-billion-year-old history Develop a model to describe the cycling of	MS-ESS2-2, MS-ESS1-4, MS-ESS2-1

		Earth's materials and the flow of energy that drives this process	
2 days	Fossils	Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions Construct a scientific explanation based on evidence from rock strata for how the geological time scale is used to organize Earth's 4.6-billion-year-old history	MS-ESS2-3, MS-ESS1-4
2 days	Geologic Time Scale	Construct a scientific explanation based on evidence from rock strata for how the geological time scale is used to organize Earth's 4.6-billion-year-old history	MS-ESS1-4
2 days	Water Cycle, Groundwater and Glaciers	Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity. 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	MS-ESS2-4, MS-ESS3-1

Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> ● STEM projects ● Science Centers ● Discussions ● Quizzes ● Student Responses 	<ul style="list-style-type: none"> ● Unit Test

<ul style="list-style-type: none">• Entrance/Exit Slips	
Main Resources	Supplementary Resources
<ul style="list-style-type: none">•	<ul style="list-style-type: none">• NewsELA• Science Exploration Centers• Online Resources• 6th Grade Science Google Drive

Unit 2 Appendix

Grade 6/ Science/ Unit 3 Earth and Human Impact

Time Frame	Content Focus	Skill Focus	Standards
4 days	Air Pressure, Air Masses, and Fronts	Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.	MS-ESS2-5
2 days	Atmosphere	Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.	MS-ESS2-5
4 days	Extreme Weather	<p>Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.</p> <p>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</p> <p>Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.</p>	MS-ESS2-5, MS-ESS2-6, MS-ESS3-2

3 days	Human Impact on Earth and Climate	<p>Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.</p> <p>Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.</p> <p>Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.</p>	MS-ESS3-3, MS-ESS3-4, MS-ESS3-5
--------	-----------------------------------	---	---------------------------------

Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> ● STEM projects ● Science Centers ● Discussions ● Quizzes ● Student Responses ● Entrance/Exit Slips 	<ul style="list-style-type: none"> ● Unit Test
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> ● 	<ul style="list-style-type: none"> ● NewsELA ● Science Exploration Centers ● Online Resources ● 6th Grade Science Google Drive

Unit 3 Appendix

