



# M/J Earth Space Science (Course #2001010 Advanced #2001020)



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Quarter	Big Idea	Benchmark Description		Suggested Pacing Days*	Assessments
First Quarter (39 days)	Earth Systems and Patterns	1	<a href="#">SC.6.E.7.4</a> Interactions among the geosphere, hydrosphere, cryosphere, atmosphere, and biosphere.	4	<a href="#">Exemplar 1A</a> <a href="#">Exemplar 1B</a>
		2	<a href="#">SC.6.E.7.9</a> Composition and structure of the atmosphere	5	
		3	<a href="#">SC.6.E.7.1</a> , <a href="#">SC.6.E.7.3</a> , <a href="#">SC.6.E.7.5</a> Sun influence on global patterns of atmospheric movement and the temperature differences between air, water, and land.	5	
		4	<a href="#">SC.6.E.7.2</a> , <a href="#">SC.6.E.7.3</a> , <a href="#">SC.6.E.7.6</a> Global patterns such as the jet stream and ocean currents influence local weather and climate patterns.	6 (20 days)	<a href="#">Exemplar 2A</a> <a href="#">Exemplar 2B</a>
Second Quarter (36 days)	Earth's Structures	5	<a href="#">SC.6.E.6.1</a> , <a href="#">SC.6.E.6.2</a> Physical and chemical weathering, erosion, and deposition and the landforms created from these processes.	4	<a href="#">Exemplar 3A</a> <a href="#">Exemplar 3B</a>
		6	<a href="#">SC.7.E.6.2</a> Patterns within the rock cycle related to surface events (weathering and erosion) and subsurface events (plate tectonics and mountain building).	5	
		7	<a href="#">SC.7.E.6.1</a> Layers of the Earth, including the lithosphere, mantle, and the dense metallic liquid and solid cores.	5	<a href="#">Exemplar 4A</a> <a href="#">Exemplar 4B</a>
		8	<a href="#">SC.7.E.6.5</a> <a href="#">SC.7.E.6.7</a> Theory of plate tectonics explains how the movement of Earth's crustal plates causes both slow and rapid changes in Earth's surface.	5 (19 days)	
Third Quarter (34 days)	Earth in Space and Time	9	<a href="#">SC.7.E.6.3</a> <a href="#">SC.7.E.6.4</a> physical evidence that supports scientific theories that Earth has evolved over geologic time due to natural processes.	6	Exemplar 5A Exemplar 5B
		10	<a href="#">SC.7.E.6.6</a> Humans impact on Earth, such as deforestation, urbanization, desertification, erosion, air and water quality, changing the flow of water.	5	
		11	<a href="#">SC.8.E.5.8</a> Compare various historical models of the Solar System, including geocentric and heliocentric.	5	Exemplar 6A Exemplar 6B
		12	<a href="#">SC.8.E.5.4</a> , <a href="#">SC.6.P.13.2</a> Law of Universal Gravitation role in the formation of planets, stars, and solar systems and in determining their motions.	5 (21 days)	
Fourth Quarter (27 days)**	Earth in Space and Time	13	<a href="#">SC.8.E.5.4</a> , <a href="#">SC.8.E.5.9</a> Impact of objects in space on each other including: 1. The Sun on the Earth including seasons and gravitational attraction	2	Exemplar 7A Exemplar 7B
		14	<a href="#">SC.8.E.5.4</a> , <a href="#">SC.8.E.5.9</a> Impact of objects in space on each other including: 2. The Moon on the Earth, including phases, tides, and eclipses, and the relative position of each body.	4	
		15	<a href="#">SC.8.E.5.1</a> , <a href="#">SC.8.E.5.2</a> , <a href="#">SC.8.E.5.3</a> Hierarchical relationships between planets and other astronomical bodies relative to the solar system, galaxy, and universe, including distance, size, and composition.	3	Exemplar 8A Exemplar 8B
		16	<a href="#">SC.8.E.5.7</a> , <a href="#">SC.8.E.5.10</a> Properties of objects in the Solar System including the Sun, planets, and moons to those of Earth, such as gravitational force, distance from the Sun, speed, movement, temperature, and atmospheric conditions.	3	
		17	<a href="#">SC.8.E.5.5</a> <a href="#">SC.8.E.5.6</a> , <a href="#">SC.8.E.5.10</a> , <a href="#">SC.8.E.5.11</a> Physical properties of stars: apparent magnitude (brightness), temperature (color), size, and luminosity (absolute brightness).	4 (16 days)	Exemplar 9A Exemplar 9B
<a href="#">Instructional Review</a>					

\*The days provided for each unit/topic is an estimate that may be adjusted by subject -level PLCs based on student achievement data. The days are based upon every other day scheduling and should be adjusted, if necessary, based upon a daily format. The recommended days shown are less than the actual days for each quarter to allow for additional time for routines, testing, absences, remediation and outside considerations.

\*\* This does not include the days in May or June due to testing schedules and end of year events.