

6th Grade UNIT 4 OVERVIEW: *Space Invaders*

Unit Outcomes	Key Vocabulary	
At the end of this unit, your student should be able to:	Terms to deepen the student's understanding	
<ul style="list-style-type: none"> ✓ Describe how the interaction of the sun, moon and Earth causes the seasons, tides, eclipses, and moon phases. ✓ Explain why Earth can sustain life based on its type of surface, gravitational force and location to the sun. ✓ Explain why other planets do not appear to sustain life based on their properties and their locations to the sun. ✓ Summarize how space exploration has allowed us to increase our scientific knowledge and benefit from technological advancements. 	<ul style="list-style-type: none"> ✓ Seasons ✓ Phases of Moon ✓ Tides ✓ Eclipses ✓ Sun ✓ Moon ✓ Earth ✓ Gravity ✓ Umbra ✓ Penumbra ✓ Angle of Intensity ✓ Axis ✓ Sun ✓ Planets ✓ Asteroids ✓ Meteors ✓ Comets 	<ul style="list-style-type: none"> ✓ Atmosphere ✓ NASA ✓ Probe ✓ Space Station ✓ Space Shuttle ✓ Rocket ✓ Hubble Telescope ✓ Apollo ✓ Space Spin Off ✓ Kuiper Belt ✓ Astronaut ✓ Heliocentric ✓ Geocentric ✓ Solar System ✓ Galaxy ✓ Satellite
Key Standards Addressed	Where This Unit Fits	
Connections to Common Core/NC Essential Standards	Connections to prior and future learning	
<p>6.E.1.1 Explain how the relative motion and relative position of the sun, Earth, and moon affect the seasons, tides, phases of the moon and eclipses.</p> <p>6.P.1.2 Explain why Earth sustains life while other planets do not based on their properties (including types of surface, atmosphere and gravitations force) and location to the Sun.</p> <p>6.P.1.3 Summarize space exploration and the understandings gained from them.</p>	<p>Coming into this unit, students should have a strong foundation in:</p> <ul style="list-style-type: none"> ✓ Understanding the cause of day and night based on the rotation of Earth on its axis. ✓ Describing monthly changes in the appearance of the moon based on the moon's orbit around the Earth. ✓ Recognizing Earth as part of a system called the Solar System including the sun, planets, and many moons. <p>This unit builds to the following future skills and concepts:</p> <ul style="list-style-type: none"> ✓ Predict weather conditions and patterns based on information obtained from: weather data collected from direct observations and measurement; weather maps, satellites and radar; and cloud shapes and types and associated elevation. 	
Additional Resources	"Learning Checks"	
Materials to support understanding and enrichment	Questions Parents Can Use to Assess Understanding	
<ul style="list-style-type: none"> ✓ CK12 Textbook <ul style="list-style-type: none"> ○ Earth, Moon, Sun ○ Observing and Exploring Space ✓ Discovery Education <ul style="list-style-type: none"> ○ Space Travel ○ Space Travel (Spanish) ○ Lunar Mission to Mars ○ Telescopes 	<ul style="list-style-type: none"> ✓ What is affected by the relative motion and position of the sun, moon, and Earth? ✓ How is Earth able to sustain life while other planets do not appear to be able to sustain life? ✓ What is the link between technology and our ability to explore and travel into space? 	



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<ul style="list-style-type: none">○ Watching the Universe○ Watching the Universe (Spanish)○ Moon Phases○ The Inconstant Moon○ The Inconstant Moon (Spanish)○ Eclipses○ Solar Eclipse○ Tides○ Tides (Spanish)	
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