

Earth & Space Science (Moon Phases)

Grade 7 Science Grade 7 Science

Start Date: January 06, 2014

End Date : January 24, 2014

<p>Unit Overview Moon Phases</p>	<p>Content Elaborations</p> <p>The moon's orbit and its change of position relative to the Earth and sun result in different parts of the moon being visible from Earth (phases of the moon).</p> <p>The emphasis should not be on naming the phases of the moon or tides are cyclical and predictable. Advances in science knowledge system are included in this content statement.</p>	<p>Unit Resources</p> <ul style="list-style-type: none"> - Textbook Ch. 21 Section 4 - Gizmo: Phases of the Moon - Gizmo: 3D Eclipse - Discovery Learning Video: Space Exploration: Phases of the Moon - Discovery Education Video: Moon Phases - SmartBoard Illustration Lesson
<p>Unit Vocabulary</p> <p>Phase Waxing Waning Crescent Gibbous Satellite Gravitational Pull Solar eclipse Lunar Eclipse</p>	<p>Enduring Understandings (Big Ideas)</p> <p>The relative patterns of motion and positions of the earth, moon, & sun cause solar/lunar eclipses and the phases of the moon.</p>	<p>Connections</p> <p>Planetarium Visit??</p>

Standards

OH_Academic_Content_Standards - Science (2011) - Grade 7

Strand ESS Earth and Space Science

Topic ESS.1 This topic focuses on Earth's hydrologic cycle, patterns that exist in atmospheric and oceanic currents, the relationship between thermal energy and the currents, and the relative position and movement of the Earth, sun and moon.

Content Statement ESS.1.4 The relative patterns of motion and positions of the Earth, moon and sun cause solar and lunar eclipses, tides and phases of the moon.

ESS.1.4.a The moon's orbit and its change of position relative to the Earth and sun result in different parts of the moon being visible from Earth (phases of the moon).

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ESS.1.4.b A solar eclipse is when Earth moves into the shadow of the moon (during a new moon). A lunar eclipse is when the moon moves into the shadow of Earth (during a full moon).

Student Assessment	Unit Reflection
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Moon Phases

Content	Skills	Assessment
A. Moon Phases	A. Moon Phases <ol style="list-style-type: none">1. Describe the moon's orbit around the earth.2. Identify each of the moon's phases3. Demonstrate using a model the changing positions of the Moon and Earth.4. Identify a solar eclipse.5. Identify a lunar eclipse6. compare/Contrast solar/lunar eclipse	