

## Unit 2 Sun, Moon, Earth



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| Unit 2 Vocabulary  | <a href="#">Quizlet</a>   |
| Asteroid Portfolio | <a href="#">Portfolio Explanation and Help</a><br><a href="#">Portfolio Rubric</a><br><a href="#">Asteroid Portfolio Examples</a> |

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| <b>2.1 Sun, Moon, Earth Introduction</b>        | <ul style="list-style-type: none"> <li>No Lesson Helper is provided for this lesson - watch the videos carefully!</li> </ul>  |
| <b>2.2 Introduction to Space + Quick Check</b>  | <ul style="list-style-type: none"> <li><a href="#">YouTube Video: Difference between rotation and revolution</a> - MooMooMath and Science</li> <li><a href="#">YouTube Video: Who won the space race?</a> - TED-ed</li> <li><a href="#">Sky and Telescope: Make a Star Wheel Model</a> (printable)</li> <li><a href="#">YouTube Video: Why Do Stars in the Night Sky Change With the Seasons?</a> - eHow Education</li> </ul> |
| <b>2.3 Moon Phases + Quick Check</b>            | <ul style="list-style-type: none"> <li><a href="#">YouTube Video: Moon Phases Demonstration</a> - National Science Teaching Association</li> <li><a href="#">YouTube Video: Phases of the Moon</a> - Jared Owen</li> <li><a href="#">Interactive Moon Phases Model</a> - PBS Learning Media</li> <li><a href="#">YouTube Video: The Phases of the Moon Song</a> -Jam Campus</li> </ul>  |
| <b>2.4 Eclipses +Quick Check</b>                | <ul style="list-style-type: none"> <li><a href="#">Solar Eclipse and Lunar Eclipse</a> - Jared Owen</li> <li><a href="#">YouTube Video: What's the difference between a solar and lunar eclipse?</a> - Physics Girl</li> <li><a href="#">Solar Eclipse 101</a> - National Geographic</li> <li><a href="#">Lunar Eclipse 101</a> - National Geographic</li> </ul>  |
| <b>2.5 Reason for the Seasons + Quick Check</b> | <ul style="list-style-type: none"> <li><a href="#">Why Do We Have Different Seasons?</a> - California Academy of Sciences</li> <li><a href="#">Seasons and the Sun</a> - Crash Course Kids</li> <li><a href="#">Why Do We Have Seasons Interactive Model</a> - PBS Learning Media</li> </ul>  |

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| <p><b>2.6 Not Enough Hours</b></p>             | <ul style="list-style-type: none"> <li>• <a href="#">Daylight Savings Time Explained</a></li> <li>• <a href="#">Discussion Guidelines and Rubric</a></li> </ul>  |
| <p><b>2.7 Not Enough Hours Discussion</b></p>  | <ul style="list-style-type: none"> <li>• Click the link in your lesson to post your response to the discussion question. To get full points, you need to include: <ul style="list-style-type: none"> <li>○ Your response to the prompt (click the image of the paper with the green plus sign next to the word “Conversations” to create your own post)</li> <li>○ Respond to 2 other students’ posts (responding “I agree” or “Nice” will not get full points- make sure you read the post and respond)</li> </ul> </li> </ul>  |
| <p><b>2.8 Asteroid Impact Portfolio 1</b></p>  | <p>Today you will start learning about your Asteroid Impact Portfolio!</p> <p>This is NOT due today, but you will learn skills that will help you complete your portfolio in the next two lessons!</p> <p>Save any notes or work you do today to help you complete your portfolio. Pay close attention to the portfolio requirements so you know exactly what you need to turn in (and what you don't need to turn in)!</p>  |
| <p><b>2.9 Asteroid Impact Portfolio 2</b></p>  | <p>Today you are going to complete part 1 of your Asteroid Impact Portfolio!</p> <p>Read the lesson carefully to learn skills that will help you with your portfolio. On page 15, complete the 4 steps:</p> <ol style="list-style-type: none"> <li>1. Create a diagram/model that illustrates the causes of lunar phases</li> <li>2. Add a new section to your model showing what would happen if the moon was hit by an asteroid</li> <li>3. Write an explanation of how the impact of the asteroid would change lunar phases</li> <li>4. Compare your work so far to the rubric, and make any necessary changes</li> </ol> <p>This portfolio is NOT due today! Save any notes or work you do today to help you complete your portfolio. Pay close attention to the portfolio requirements so you know exactly what you need to turn in (and what you don't need to turn in)!</p> |
| <p><b>2.10 Asteroid Impact Portfolio 3</b></p> | <p>Today you are going to complete part 2 of your Asteroid Impact Portfolio AND TURN IN YOUR PORTFOLIO!</p> <p>Read the lesson carefully to learn skills that will help you with your portfolio. On page 4, complete the 5 steps:</p> <ol style="list-style-type: none"> <li>1. Create a diagram/model that illustrates the causes of Earth's</li> </ol>   |

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|   | <p>seasons</p> <ol style="list-style-type: none"> <li>2. Add a new section to your model showing what would happen if an asteroid impact changed the tilt of Earth's axis</li> <li>3. Write an explanation of how the impact of the asteroid would change Earth's seasons</li> <li>4. Think about the problems that would be caused by changes to the seasons, and consider at least 2 solutions</li> <li>5. Compare your work so far to the rubric, and make any necessary changes</li> </ol> <p>This portfolio is due today! Use any notes or work you have done in the past 3 lessons to help you complete your portfolio. Pay close attention to the portfolio requirements so you know exactly what you need to turn in (and what you don't need to turn in)!</p> <p>Don't forget- COMPARE YOUR PORTFOLIO TO THE RUBRIC BEFORE YOU TURN IT IN!</p> |
| <p><b>2.11 Sun, Moon, Earth Review + Sample Work + Practice</b></p> | <ul style="list-style-type: none"> <li>● The sample work is DROPPED for this lesson</li> <li>● Take notes during your review of anything you found confusing or difficult! You will be able to use your notes on the test!</li> </ul>   |
| <p><b>2.12 Sun, Moon, Earth Unit Test</b></p>                       | <p>Remember you can use any notes you take during this unit to help you on the test!</p> <p>Don't skip the free-response questions! These are worth a good chunk of points and will significantly increase your overall grade if you earn the points!</p>   |