

<p style="text-align: center;">Unit Solar System</p>	<p style="text-align: center;"><b><u>STANDARDS/EQs/ OBJECTIVE</u></b></p> <p style="text-align: center;"><b><i>What are students learning?</i></b></p> <p style="text-align: center;"><u>Standards:</u></p> <p><b>S4E1.</b> Students will compare and contrast the physical attributes of stars, star patterns, and planets.  <b>a.</b> Recognize the physical attributes of stars in the night sky such as number, size, color and patterns. <b>b.</b> Compare the similarities and differences of planets to the stars in appearance, position, and number in the night sky. <b>c.</b> Explain why the pattern of stars in a constellation stays the same, but a planet can be seen in different locations at different times. <b>d.</b> Identify how technology is used to observe distant objects in the sky.</p> <p><b>S4E2.</b> Students will model the position and motion of the earth in the solar system and will explain the role of relative position and motion in determining sequence of the phases of the moon. <b>a.</b> Explain the day/night cycle of the earth using a model. <b>b.</b> Explain the sequence of the phases of the moon. <b>c.</b> Demonstrate the revolution of the earth around the sun and the earth's tilt to explain the seasonal changes. <b>d.</b> Demonstrate the relative size and order from the sun of the planets in the solar system.</p> <p><b>Essential Questions:</b></p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>What are the planets of the solar system?          What are the rotations and revolutions of each of the other planets?</p> </div>	<p style="text-align: center;"><b><u>PROCEDURES:</u></b></p> <p style="text-align: center;"><b><i>How will we know they've learned?</i></b></p> <hr/> <p><b>Solar System Jigsaw Project</b></p> <p>This is a group activity where students will learn about the 8 planets that make up our solar system. Each of the students will become an expert on one of the planets. When the group has answered all the questions, they will go back to their home groups and teach the other students in their group about their planet.</p> <p><b>Directions</b></p> <p>You will begin in a home group. There will be 8 students in your home group. Each home group will split up into your planet expert group to learn more about your assigned planet. You will be in groups of 3. Your number determines which planet you will become an expert of. This means that all the ones will be together, twos, threes, and so on. Work together in your planet expert group to learn more about your planet. After you have finished looking at the websites, you will return to your home group. You will teach the rest of the home group about your assigned planet. Students will create a puzzle piece about their planet and the home group will make a complete puzzle that includes all planets of the solar system.</p> <p><b>Materials:</b></p> <p>Grade level website with planet information/ Kid Rex</p> <p>Planet questions</p> <p>Jigsaw Puzzle pieces</p> <p><b>Homework</b></p> <ul style="list-style-type: none"> <li>• <b><u>N/A</u></b></li> </ul>	<p style="text-align: center;"><b><u>ASSESSMENT / DIFFERENTIATION:</u></b></p> <p style="text-align: center;"><b><i>What will we do if they do/don't get it?</i></b></p> <p><b>Assessment:</b></p> <p>Guided Practice (formative)</p> <p><b>Differentiation</b></p> <p><u>Remediation:</u></p> <p>Pull these students for small groups and more guided practice</p> <p><u>Enrichment</u></p> <p>Choice Board Activities</p> <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>• Planet</li> <li>• Star</li> <li>• Constellation</li> <li>• Rotation</li> <li>• Revolution</li> <li>• Moon Phases</li> <li>• Orbit</li> <li>• Telescope</li> </ul>
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