<table>
<thead>
<tr>
<th>Quarter 1</th>
<th>Quarter 2</th>
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<tr>
<td><strong>Unit 1</strong> 4 weeks</td>
<td><strong>Unit 2</strong> 5 weeks</td>
<td><strong>Unit 3</strong> 4 weeks</td>
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<td>Earth &amp; Moon</td>
<td>Stars &amp; Planets</td>
<td>Ecosystems</td>
<td>Water</td>
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<td><strong>S4E2.</strong> Obtain, evaluate &amp; communicate information to model the effects of the position &amp; motion of the Earth &amp; the moon in relation to the sun as observed from the Earth.</td>
<td><strong>S4E1.</strong> Obtain, evaluate, &amp; communicate information to compare &amp; contrast the physical attributes of stars &amp; planets. a. Compare &amp; contrast technological advances that have changed the amount &amp; type of information on distant objects in the sky. b. Develop a model based on observations to describe the repeating pattern of the phases of the moon (new, crescent, quarter, gibbous &amp; full) c. Construct an explanation of how the Earth’s orbit, with its consistent tilt, affects seasonal change.</td>
<td><strong>S4L1.</strong> Obtain, evaluate, &amp; communicate information about the roles of organisms &amp; the flow of energy within an ecosystem. a. Develop a model to describe the roles of producers, consumers, &amp; decomposers in a community. b. Develop simple models to illustrate the flow of energy through a food web/food chain beginning with sunlight &amp; including producers, consumers &amp; decomposers. c. Design a scenario to demonstrate the effect of a change on an ecosystem. d. Use printed &amp; digital data to develop a model illustrating &amp; describing changes to the flow of energy in an ecosystem when plants or animals</td>
<td><strong>S4E3.</strong> Obtain, evaluate, and communicate information to predict weather events and infer weather patterns using weather charts/maps and collected weather data. a. Plan and carry out investigations to observe the flow of energy in water as it changes states from solid (ice) to liquid (water) to gas (water vapor) and changes from gas to liquid to solid. b. Develop models to illustrate multiple pathways water may take during the water cycle (evaporation, condensation, and precipitation).</td>
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<td><strong>S4E4.</strong> Obtain, evaluate, and communicate information to predict weather events and infer weather patterns using weather charts/maps and collected weather data. a. Plan and carry out investigations to observe the flow of energy in water as it changes states from solid (ice) to liquid (water) to gas (water vapor) and changes from gas to liquid to solid. b. Develop models to illustrate multiple pathways water may take during the water cycle (evaporation, condensation, and precipitation).</td>
<td><strong>S4E2.</strong> Obtain, evaluate, and communicate information to model the effects of the position &amp; motion of the Earth &amp; the moon in relation to the sun as observed from the Earth.</td>
<td><strong>S4P1.</strong> Obtain, evaluate, &amp; communicate information about the nature of light &amp; how light interacts with objects. a. Plan &amp; carry out investigations to observe &amp; record how light interacts with various material to classify them as opaque, transparent or translucent. b. Plan &amp; carry out investigations on the path light travels from a light source to a mirror &amp; how it is reflected by the mirror using different angles. c. Ask questions and use observations of cloud types (cirrus, stratus, and cumulus) and data of weather conditions to predict weather events. d. Construct an explanation based on research to communicate the difference between weather and climate.</td>
<td><strong>S4P2.</strong> Obtain, evaluate &amp; communicate information about how sound is produced &amp; changed &amp; how sound &amp;/or light can be used to communicate. a. Plan &amp; carry out an investigation utilizing everyday objects to produce sound &amp; predict the effects of changing the strength or speed of vibrations. b. Design &amp; construct a device to communicate across a distance using light &amp;/or sound.</td>
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<td>become scarce, extinct, or over-abundant.</td>
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<td>b. Design &amp; construct a device to communicate across a distance using light &amp;/or sound.</td>
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