Water Cycle Model

Procedure

1. Collaborate  Work with a partner.

2. Measure  Use a metric ruler to measure 1 cm of water in a plastic container. Place the lid on the container.

3. Experiment  Place four or five ice cubes in a plastic bag. Seal the bag and place it on the lid of the container.

4. Use Models  Put the container near a lamp so that the lamp shines on one side of the container. Safety: Do not touch the light bulb. Do not look directly into the light.

5. Observe  After 15 minutes, carefully observe the container. Look for any changes on the inside and outside of the container. Record your observations in your chart. Make observations every 15 minutes for 1 hour.

<table>
<thead>
<tr>
<th>Time</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inside of Container</td>
</tr>
<tr>
<td>Start</td>
<td></td>
</tr>
<tr>
<td>15 minutes</td>
<td></td>
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<tr>
<td>30 minutes</td>
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<tr>
<td>45 minutes</td>
<td></td>
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<td>1 hour</td>
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Conclusion

1. **Infer** What changes occurred on the inside of the container? Infer what caused the changes.

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2. **Use Models** You made a model of Earth’s water cycle using a lamp as a source of heat. What source of heat warms the water in lakes, rivers, and oceans on Earth?

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Experiment

Repeat the experiment, adding food coloring to the water. **Compare** what you see with what you saw in the first experiment. Write a hypothesis to explain the difference.

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