



Water Cycle Model

Procedure

1. **Collaborate** Work with a partner. Record your observations in the chart below.

Time	Observations	
	Inside of Container	Outside of Container
Start		
After 15 minutes		
After 30 minutes		
After 45 minutes		
After 1 hour		

2. **Measure** Use a metric ruler to measure 1 cm of water in a plastic container. Place the lid on the container.
3. Place 4 or 5 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 lightbulb. It may be very hot. Do not look directly into the light.

Name _____ Date _____

- 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 one hour.

Conclusion

Write the answers to the questions below.

- 1. Analyze Data** What changes occurred on the inside of the container?

- 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?

Design an Experiment Repeat the experiment, but put food coloring in the water. Compare what you see with what you saw in the first experiment. Write a hypothesis to explain the difference.

Guided Inquiry