

# Water Phase Change Activity

Equipment: ice, plastic glass, plastic bag, spoon

⇒ Fill a plastic bag with air and put it in the freezer.

⇒ Fill a plastic glass about half full of water.

1. What do you think the temperature of the water in the plastic glass is right after you put it in the glass?

2. How will the water temperature change if we leave it in the plastic glass?

⇒ Get some ice from a cooler or freezer.

3. The phase change from a liquid to a solid is called \_\_\_\_\_ .

⇒ Blow across the tops of the ice cubes.

4. What do you see?

5. The phase change from a solid to a gas is called \_\_\_\_\_ .

⇒ Fill the rest of plastic glass with ice cubes and stir with the spoon.

6. What do you think will happen to the temperature of the water in the plastic glass?

⇒ Let the plastic glass sit for about 10 minutes.

7. Why are the ice cubes smaller than they were when you put them in the glass?

8. The phase change from a solid to a liquid is called \_\_\_\_\_ .

9. Why is there water on the outside of the glass?

10. The phase change from a gas to a liquid is called \_\_\_\_\_ .

⇒ Mark the height of the water surface in the plastic glass with a marker or piece of tape.

⇒ Put the glass in a warm or sunny location for about a half hour.

⇒ Observe the height of the water in the plastic glass.

11. Why did the water level change?

12. The phase change from a liquid to a gas is called \_\_\_\_\_ .

⇒ Remove your bag of air from the freezer.

13. What do you see inside the bag?

14. The phase change from a gas to a solid is called \_\_\_\_\_ .

### Phase Changes

		to		
		solid	liquid	gas
from	solid		melting	sublimation
	liquid	freezing		evaporation
	gas	deposition	condensation	