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Student Exploration: Phase Changes

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: altitude, boil, boiling point, freeze, freezing point, gas, liquid, melt, melting point, phase, solid

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A family from Minnesota turns off the heat and flies to Florida for a winter holiday. When they come home, all of their water pipes have burst. What do you think happened?

The water in the pipe froze and made them burst

2. Spaghetti takes about 9 minutes to cook at sea level, but about 14 minutes in the mountains. Why do you think this is so?

There, the water has a lower boiling point, which results in colder water and slower pasta cooking

Gizmo Warm-up

In the *Phase Changes Gizmo*, select **Micro view** and set the **Ice volume** to 50 cm³. Notice the nitrogen (), oxygen (), and water () molecules.

Click **Play** () and observe water molecules in the **solid** (ice), **liquid** (water), and **gas** (air) **phases**.

1. In which phase(s) are the molecules held rigidly together?

Solid

2. In which phase(s) do the molecules move freely?

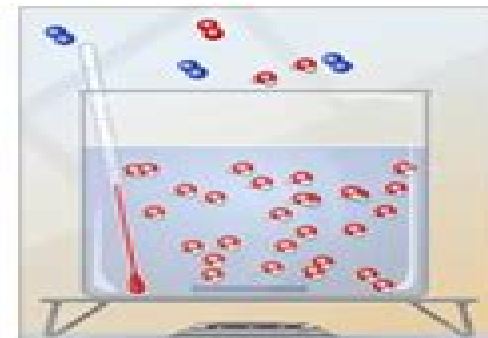
Gas and liquid

3. In which phase(s) are the molecules held in a defined shape?

Solid and liquid

4. In which phase(s) do the molecules take the shape of their container?

Liquid



Gizmo Phase Changes Answers

AW Rasmussen

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Phase Changes Answers:

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