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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 pipes froze to fast and the pressure caused the pipes to 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?

Because

### Gizmo Warm-up

In the *Phase Changes* Gizmo, select **Micro view** and set the **Ice volume** to 50 cm<sup>3</sup>. 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?

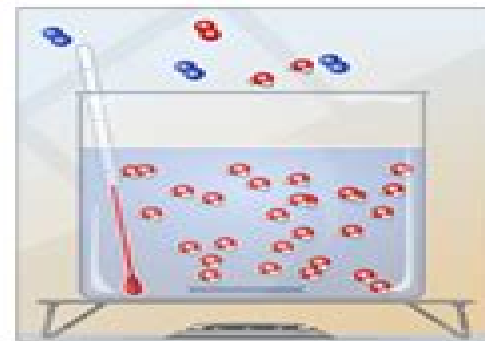
Gas and liquid

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



# Phase Changes Gizmo Answers

**R Barnett**

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.

## Phase Changes Gizmo Answers:

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