

## Student Exploration: Phase Changes

**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?

boiling point of water is lower there which makes the water cooler so makes the  
pasta cook slower

### 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 (N<sub>2</sub>), oxygen (O<sub>2</sub>), and water (H<sub>2</sub>O) 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?

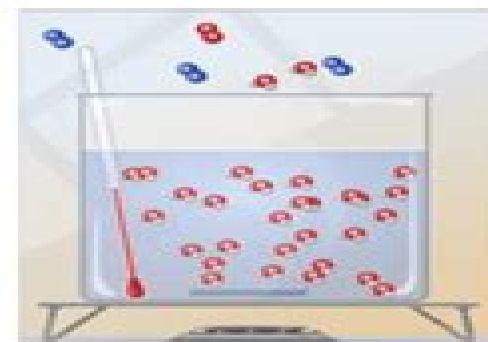
together, solid

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

gas, liquid

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

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



# Student Exploration Phase Changes Gizmo Answer Key

**Lingsheng Yao**

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.

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