



Name:

Date:

## 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?

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?

### 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.

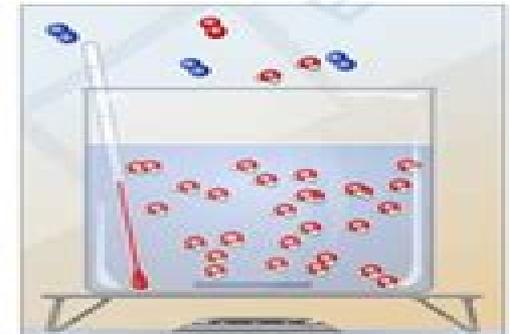
Click **Play** (  ) and observe water molecules in the **solid** (ice), **liquid** (water), and **gas** (air) **phases**.

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

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

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

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



# Explore Learning Gizmo Answer Key Phase Changes

**R Barnett**



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web 27 then he said to thomas put your finger here see my hands reach out your hand and put it into my side stop doubting

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and believe 28 thomas said to him my lord and my god 29 then jesus told him because you have seen me you have believed  
blessed are those who have not seen and yet have believed