Name:	Date	6

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.)

 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?

All the water in the pipes froze causing them to expand and burst the pipe.

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

The boiling point of water is lower their meaning the water is cooler causing the pasta to cook slower.

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 (48) molecules.

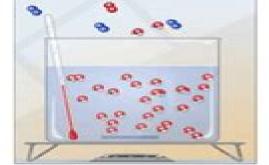
Click Play () and observe water molecules in the solid (ice), liquid (water), and gas (air) phases.

In which phase(s) are the molecules held rigidly

together? solid

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



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