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?

the water in the pipe froze and made them burst

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 cm³. Notice the nitrogen (%), oxygen (%), and water (49) molecules.

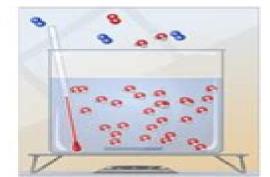
Click Play () and observe water molecules in the solid (ice), liquid (water), and gas (air) phases.

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



- In which phase(s) are the molecules held in a defined shape? <u>solid, liquid</u>
- In which phase(s) do the molecules take the shape of their container? <u>liquid</u>

JEL.

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Lingjun Ying

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