



## 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.)

Marla wants a hard-boiled egg for breakfast. The recipe says boil water, then lower the heat so the water is simmering. But Marla is in a rush, so she keeps the heat on high as the egg cooks.

Do you think the egg will be done faster if the heat is kept on high as the water boils?

No

Explain your answer.

If the water is kept high the egg will cook inconsistently so the outer and inner layers will be at different stages.

### 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.

To start, create ice. Set **Add/remove heat energy** to -200 J/s, click **Play** (  ), and then click **Pause** (  ) when the container is about half ice, half water. Set **Add/remove heat energy** back to 0 J/s, and then click **Play**.



1. Observe water molecules in the **solid** (ice), **liquid** (water), and **gas** (air) **phases**.

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

Gas

B. In which phase(s) are molecules held together?

Solid

C. What do you notice about the positions of the ice molecules?

They are all about equal distance apart and more uniform than the air or water molecules.

2. Click **Reset** (  ), and select **Macro view**. Set the **Ice volume** to 25 cm<sup>3</sup>.

A. In which phase(s) is water held in a defined shape?

Solid

B. In which phase(s) does the water take the shape of the container?

Liquid

# Student Exploration Phase Changes Gizmo Answer Key

**J Rink**



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