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Student Exploration: Phase Changes

Vocabulary: altitude, boil, boiling point, freeze, freezing point, gas, liquid, melt, melting point, phase, solid

Prior Knowledge Question (Do this BEFORE using the Gizmo.)

Maria wants a hard-boiled egg for breakfast. The recipe says boil water, then lower the heat so the water is simmering. But Maria 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. It will probably just crack the shell.

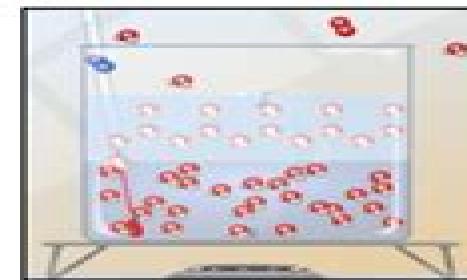
Gizmo Warm-up

In the Phase Changes Gizmo, select **Micro view**. Notice the nitrogen (blue), oxygen (red), and water (red) 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**.

- In which phase(s) do molecules move freely? gas
- In which phase(s) are molecules held together? solid
- What do you notice about the positions of the ice molecules?



They are vibrating in an organized structure

When frozen, water molecules form a hexagon (six-sided shape) pattern.

2. Click **Reset** (⟳), and select **Macro view**. Set the **Ice volume** to 25 cm³.

- In which phase(s) is water held in a defined shape? Solid
- In which phase(s) does the water take the shape of the container? Liquid



33 Phase Changes Answers

M Carnoy

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