



Name:

Date:

Student Exploration: Phase Changes (4b)

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

Activity B:

Temperature and molecular motion

Get the Gizmo ready:

- Click **Reset**, and select the **Micro view**.
- Set **Ice volume** to 0 cm^3 .
- Set **Add/remove heat energy** to 0 J/s .



Question: Why do phase changes occur?

1. **Compare:** Set the **Water temperature** to 0 $^{\circ}\text{C}$ and click **Play**. Observe the water molecules. Click **Reset**, set the **Water temperature** to 100 $^{\circ}\text{C}$, and click **Play** again.

What do you notice?

There is no difference.

2. **Observe:** Click **Reset**. The **mean molecular speed** of the water molecules is displayed below the container. Set the **Water temperature** to 0 $^{\circ}\text{C}$ and **Add/remove heat energy** to 400 J/s . Click **Play**.

A. How does the mean speed of the water molecules change as they are heated?

The water gets hotter (has more heat energy).

B. Does the mean molecular speed change as much as the temperature as the water heats up? Explain.

Yes, the more the temperature increases the more the molecules of the water speed up (until they hit the boiling point, where they cannot get hotter any longer.)

3. **Explain:** How is temperature related to the motions of molecules?

The higher the temperature, the faster the molecules move.

4. **Observe:** Click **Reset**. Set the **Water temperature** to 20 $^{\circ}\text{C}$ and the **Ice volume** to 50 cm^3 . Set **Add/remove heat energy** to 0 J/s . Click **Play**. How do the molecules in the liquid interact with the molecules in the solid?

Gizmo Phase Changes Answers

S Ashworth



Gizmo Phase Changes Answers:

Gizmo Phase Changes Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Gizmo Phase Changes Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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