



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 cm³.
- Set **Add/remove heat energy** to 0 J/s.



Question: Why do phase changes occur?

1. **Compare:** Set the **Water temperature** to 0 °C and click **Play**. Observe the water molecules. Click **Reset**, set the **Water temperature** to 100 °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 °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 °C and the **Ice volume** to 50 cm³. 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?

Answers For Activity C Gizmo Phase Changes

O García

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Linguistics and Language Behavior Abstracts ,1994

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Unveiling the Energy of Verbal Art: An Mental Sojourn through **Answers For Activity C Gizmo Phase Changes**

In some sort of inundated with screens and the cacophony of instantaneous interaction, the profound power and psychological resonance of verbal art usually disappear in to obscurity, eclipsed by the continuous assault of sound and distractions. However, situated within the lyrical pages of **Answers For Activity C Gizmo Phase Changes**, a charming perform of literary brilliance that pulses with fresh feelings, lies an memorable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this mesmerizing opus guides viewers on a psychological odyssey, gently revealing the latent possible and profound influence embedded within the elaborate internet of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is key themes, dissect their fascinating publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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