



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

G Thomas



Gizmo Phase Changes Answers:

This book delves into Gizmo Phase Changes Answers. Gizmo Phase Changes Answers is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gizmo Phase Changes Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Gizmo Phase Changes Answers
- Chapter 2: Essential Elements of Gizmo Phase Changes Answers
- Chapter 3: Gizmo Phase Changes Answers in Everyday Life
- Chapter 4: Gizmo Phase Changes Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Gizmo Phase Changes Answers. This chapter will explore what Gizmo Phase Changes Answers is, why Gizmo Phase Changes Answers is vital, and how to effectively learn about Gizmo Phase Changes Answers.

3. In chapter 2, this book will delve into the foundational concepts of Gizmo Phase Changes Answers. This chapter will elucidate the essential principles that need to be understood to grasp Gizmo Phase Changes Answers in its entirety.

4. In chapter 3, this book will examine the practical applications of Gizmo Phase Changes Answers in daily life. The third chapter will showcase real-world examples of how Gizmo Phase Changes Answers can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Gizmo Phase Changes Answers in specific contexts. The fourth chapter will explore how Gizmo Phase Changes Answers is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Gizmo Phase Changes Answers. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Gizmo Phase Changes Answers.

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