



Name: Casey McGinn

Date: 2/13/24

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.

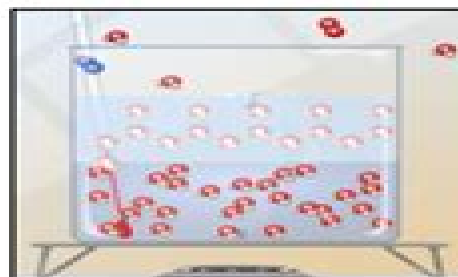
Do you think the egg will be done faster if the heat is kept on high as the water boils? No

Explain your answer. It will probably just crack the shell.

Gizmo Warm-up

In the *Phase Changes Gizmo*, select **Micro view**. Notice the nitrogen () , 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 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.

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



33 Phase Changes Answers

M Carnoy



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Table of Contents 33 Phase Changes Answers

1. Understanding the eBook 33 Phase Changes Answers
 - The Rise of Digital Reading 33 Phase Changes Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 33 Phase Changes Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 33 Phase Changes Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 33 Phase Changes Answers
 - Personalized Recommendations
 - 33 Phase Changes Answers User Reviews and Ratings
 - 33 Phase Changes Answers and Bestseller Lists
5. Accessing 33 Phase Changes Answers Free and Paid eBooks
 - 33 Phase Changes Answers Public Domain eBooks

- 33 Phase Changes Answers eBook Subscription Services
- 33 Phase Changes Answers Budget-Friendly Options
- 6. Navigating 33 Phase Changes Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 33 Phase Changes Answers Compatibility with Devices
 - 33 Phase Changes Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 33 Phase Changes Answers
 - Highlighting and Note-Taking 33 Phase Changes Answers
 - Interactive Elements 33 Phase Changes Answers
- 8. Staying Engaged with 33 Phase Changes Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 33 Phase Changes Answers
- 9. Balancing eBooks and Physical Books 33 Phase Changes Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 33 Phase Changes Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 33 Phase Changes Answers
 - Setting Reading Goals 33 Phase Changes Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 33 Phase Changes Answers
 - Fact-Checking eBook Content of 33 Phase Changes Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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