Name:

Ian Thornton

Date

10/25/21

Student Exploration: Phase Changes

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

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

 A family from Minnesota turns off the heat and flies to Florida for a winter holiday. When they come home, all of their water pipes have burst. What do you think happened?

The pipes froze to fast and the pressure caused the pipes to burst

Spaghetti takes about 9 minutes to cook at sea level, but about 14 minutes in the mountains. Why do you think this is so?

Because

Gizmo Warm-up

In the Phase Changes Gizmo, select Micro view and set the Ice volume to 50 cm². Notice the nitrogen (), oxygen (), and water () molecules.

Click Play (Pl) and observe water molecules in the solid (ice), liquid (water), and gas (air) phases.

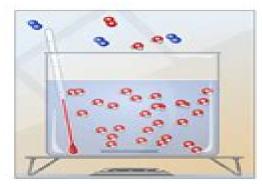
1. In which phase(s) are the molecules held rigidly together?

Solid

In which phase(s) do the molecules move freely?

Gas and liquid

- In which phase(s) are the molecules held in a defined shape?
- 4. In which phase(s) do the molecules take the shape of their container?



solid and liquid

liquid

Gizmo Activity A Phase Changes

Robert R. Redfield

Gizmo Activity A Phase Changes:

The Top Books of the Year Gizmo Activity A Phase Changes The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of topselling books, exploring the fascinating narratives that have captivated audiences this year. Gizmo Activity A Phase Changes: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Gizmo Activity A Phase Changes: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Gizmo Activity A Phase Changes

- 1. Understanding the eBook Gizmo Activity A Phase Changes
 - The Rise of Digital Reading Gizmo Activity A Phase Changes
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Gizmo Activity A Phase Changes
 - 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 Gizmo Activity A Phase Changes
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Gizmo Activity A Phase Changes
 - Personalized Recommendations
 - Gizmo Activity A Phase Changes User Reviews and Ratings
 - Gizmo Activity A Phase Changes and Bestseller Lists
- 5. Accessing Gizmo Activity A Phase Changes Free and Paid eBooks
 - Gizmo Activity A Phase Changes Public Domain eBooks
 - o Gizmo Activity A Phase Changes eBook Subscription Services
 - Gizmo Activity A Phase Changes Budget-Friendly Options
- 6. Navigating Gizmo Activity A Phase Changes eBook Formats
 - o ePub, PDF, MOBI, and More
 - Gizmo Activity A Phase Changes Compatibility with Devices
 - Gizmo Activity A Phase Changes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gizmo Activity A Phase Changes
 - Highlighting and Note-Taking Gizmo Activity A Phase Changes
 - Interactive Elements Gizmo Activity A Phase Changes
- 8. Staying Engaged with Gizmo Activity A Phase Changes

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Gizmo Activity A Phase Changes
- 9. Balancing eBooks and Physical Books Gizmo Activity A Phase Changes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gizmo Activity A Phase Changes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gizmo Activity A Phase Changes
 - Setting Reading Goals Gizmo Activity A Phase Changes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gizmo Activity A Phase Changes
 - Fact-Checking eBook Content of Gizmo Activity A Phase Changes
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - o Utilizing eBooks for Skill Development
 - $\circ \ Exploring \ Educational \ eBooks$
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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