

POGIL: Phase Changes

Honors Chemistry - Chapter 10
A POGIL Lesson
Page 1 of 4

Name: _____

Group Members: _____

Why:

Most substances go through a phase change when heated or cooled. Molecules of a substance are held together in either the solid, liquid, or gaseous phase by intermolecular forces. It is necessary to discuss what is occurring at the molecular level in order to explain how an ice cube is melted or how water is boiled.

Learning Objective:

Determine what is occurring on the molecular level during a phase change.
Construct a heating or cooling curve when given supporting information.

Vocabulary:

fusion (melting), solidification, condensation, boiling, vaporization, kinetic energy

Model 1: Representations of Molecules in Three Phases



Task:

1. Label each arrow (D, E, F, G) in Model 1 with the appropriate phase change (boiling, condensation, fusion/melting, solidification/freezing).

Key Questions:

2. Which arrow(s) in Model 1 indicate the addition of energy? _____
3. Which term, endothermic or exothermic, is used to describe the situation when energy is added into a system from the surroundings?
4. Which arrow(s) in Model 1 indicate the release of energy? _____
5. Which term, endothermic or exothermic, is used to describe the situation when energy is released into the surroundings by the system?

Phase Changes Pogil 2005 2006 Answers

Anthony S. Fauci



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Table of Contents Phase Changes Pogil 2005 2006 Answers

1. Understanding the eBook Phase Changes Pogil 2005 2006 Answers
 - The Rise of Digital Reading Phase Changes Pogil 2005 2006 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Phase Changes Pogil 2005 2006 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 Phase Changes Pogil 2005 2006 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Phase Changes Pogil 2005 2006 Answers
 - Personalized Recommendations
 - Phase Changes Pogil 2005 2006 Answers User Reviews and Ratings
 - Phase Changes Pogil 2005 2006 Answers and Bestseller Lists
5. Accessing Phase Changes Pogil 2005 2006 Answers Free and Paid eBooks
 - Phase Changes Pogil 2005 2006 Answers Public Domain eBooks
 - Phase Changes Pogil 2005 2006 Answers eBook Subscription Services
 - Phase Changes Pogil 2005 2006 Answers Budget-Friendly Options

6. Navigating Phase Changes Pogil 2005 2006 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Phase Changes Pogil 2005 2006 Answers Compatibility with Devices
 - Phase Changes Pogil 2005 2006 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Phase Changes Pogil 2005 2006 Answers
 - Highlighting and Note-Taking Phase Changes Pogil 2005 2006 Answers
 - Interactive Elements Phase Changes Pogil 2005 2006 Answers
8. Staying Engaged with Phase Changes Pogil 2005 2006 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Phase Changes Pogil 2005 2006 Answers
9. Balancing eBooks and Physical Books Phase Changes Pogil 2005 2006 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Phase Changes Pogil 2005 2006 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Phase Changes Pogil 2005 2006 Answers
 - Setting Reading Goals Phase Changes Pogil 2005 2006 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Phase Changes Pogil 2005 2006 Answers
 - Fact-Checking eBook Content of Phase Changes Pogil 2005 2006 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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