



Convection Cells

Answer Key

Vocabulary: convection, convection cell, density, global conveyor belt, mantle, mid-ocean ridge, subduction zone, vector, viscosity

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

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

You place a pot of soup on the stove. As the soup warms you notice some areas where soup is rising up and other areas where soup is sinking down.



1. Why do you think some of the soup is rising up?

Answers will vary. [The heated soup at the bottom of pot rises because it is less dense than the surrounding soup.]

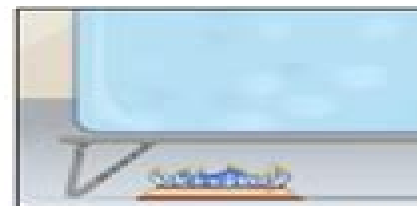
2. Why do you think some of the soup is sinking down?

Answers will vary. [When the soup reaches the surface it cools, becomes denser, and sinks.]

Gizmo Warm-up

When fluids (gases or liquids) are heated, they tend to move. This motion is called **convection**. In the *Convection Cells* Gizmo, you will observe and experiment with convection both in a laboratory setting and in several real-world examples.

To begin, note the laboratory setup on the MODEL tab. A beaker of liquid is placed above a gas burner. Click **Play** (▶). The burner is now heating the fluid.



1. What do you notice?

The liquid seems to swirl around in a circle.

2. Drag the eyedropper into the beaker just above the burner and let go to release a drop of orange liquid into the beaker. What do you notice about the path of the drop?

The drop goes up above the burner, rises to the top, goes to the right, sinks down, and then moves back to the left to start the circulation again.



Grade 7 Science Gizmo Answer Key

Lingsheng Yao

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

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The Enigmatic Realm of **Grade 7 Science Gizmo Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Grade 7 Science Gizmo Answer Key** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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Table of Contents Grade 7 Science Gizmo Answer Key

1. Understanding the eBook Grade 7 Science Gizmo Answer Key
 - The Rise of Digital Reading Grade 7 Science Gizmo Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 7 Science Gizmo Answer Key
 - 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 Grade 7 Science Gizmo Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 7 Science Gizmo Answer Key
 - Personalized Recommendations
 - Grade 7 Science Gizmo Answer Key User Reviews and Ratings

- Grade 7 Science Gizmo Answer Key and Bestseller Lists
- 5. Accessing Grade 7 Science Gizmo Answer Key Free and Paid eBooks
 - Grade 7 Science Gizmo Answer Key Public Domain eBooks
 - Grade 7 Science Gizmo Answer Key eBook Subscription Services
 - Grade 7 Science Gizmo Answer Key Budget-Friendly Options
- 6. Navigating Grade 7 Science Gizmo Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 7 Science Gizmo Answer Key Compatibility with Devices
 - Grade 7 Science Gizmo Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 7 Science Gizmo Answer Key
 - Highlighting and Note-Taking Grade 7 Science Gizmo Answer Key
 - Interactive Elements Grade 7 Science Gizmo Answer Key
- 8. Staying Engaged with Grade 7 Science Gizmo Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 7 Science Gizmo Answer Key
- 9. Balancing eBooks and Physical Books Grade 7 Science Gizmo Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 7 Science Gizmo Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 7 Science Gizmo Answer Key
 - Setting Reading Goals Grade 7 Science Gizmo Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 7 Science Gizmo Answer Key
 - Fact-Checking eBook Content of Grade 7 Science Gizmo Answer Key
 - 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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