



Name:

Date:

12/8/20

Student Exploration: Density

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: density, mass, matter, volume

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

1. List three objects that you think would sink in water, and three objects you think would float.

Sink:

An egg, a penny, and a rock.

Float:

A ping pong ball, an air-filled balloon, a boat

2. Why do you think some things float and some things sink?

Some things float and some things sink because it all depends on how much matter is inside the object that you're using.

Gizmo Warm-up

1. In the Gizmo, drag the **apple** onto the **Scale**. The scale measures **mass**. Mass is the amount of **matter**, or "stuff," in an object.



What is the apple's mass? (Note: "g" stands for grams.)

33g

2. An object's **volume** is the amount of space it takes up. The volume of an object can be measured by using a **graduated cylinder**. Observe the graduated cylinder and the blue text showing the volume of water inside the cylinder.

- A. What is the starting volume of water in the graduated cylinder?
- B. Place the apple into the cylinder. What is the volume in the cylinder now?

400mL

444mL

The water rises in the cylinder because it is displaced, or pushed upward, by the apple. The amount of displaced water is equal to the volume of the apple.

- C. What is the volume of the apple? (Use the **Object volume** to check.)

44cm³

Note: Milliliters (mL) are used for liquid volumes, while cubic centimeters (cm³) are used for solids. One mL is the same volume as one cm³. The apple's volume is measured in cm³.

All Gizmos Answer Key Determining Density

CH Cherryholmes

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

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Table of Contents All Gizmos Answer Key Determining Density

1. Understanding the eBook All Gizmos Answer Key Determining Density
 - The Rise of Digital Reading All Gizmos Answer Key Determining Density
 - Advantages of eBooks Over Traditional Books
2. Identifying All Gizmos Answer Key Determining Density
 - 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 All Gizmos Answer Key Determining Density
 - User-Friendly Interface
4. Exploring eBook Recommendations from All Gizmos Answer Key Determining Density
 - Personalized Recommendations
 - All Gizmos Answer Key Determining Density User Reviews and Ratings
 - All Gizmos Answer Key Determining Density and Bestseller Lists
5. Accessing All Gizmos Answer Key Determining Density Free and Paid eBooks
 - All Gizmos Answer Key Determining Density Public Domain eBooks
 - All Gizmos Answer Key Determining Density eBook Subscription Services
 - All Gizmos Answer Key Determining Density Budget-Friendly Options

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