

Name: _____

Date: _____

Student Exploration: Determining Density via Water Displacement

Vocabulary: Archimedes' principle, density, displacement, mass, volume

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

A ship floats by an iceberg as shown.

1. Based on the picture, which object is denser, the iceberg or the ship?



2. How do you know? _____

Gizmo Warm-up

Have you ever gotten into a bath and noticed the water level rise? Have you added potatoes to a full pot of water and had water spill over the sides? If so, you have witnessed a phenomenon called **displacement**, in which water or another fluid is pushed out of the way when a solid object is submerged in the fluid.

The *Determining Density via Water Displacement* Gizmo™ allows you to calculate the **density**, or mass per unit volume, of an object using nothing but a graduated cylinder and a container of water.



1. Place object **A** into the water. Does it float or sink? _____
2. Click **Reset**. Add each object to the water, one at a time. (Click **Reset** after each trial.)
- Which objects float? _____ Which objects sink? _____
3. Which object do you think is densest? _____ Least dense? _____
- Explain: _____

Determining Density Via Water Displacement Gizmo Answers

Roy Israel Grady



Determining Density Via Water Displacement Gizmo Answers:

A New Precise Method of Determining Density Roy Israel Grady, 1923 *Water Density Measurement Using Hydrometers* J. B. Patterson, Commonwealth Scientific and Industrial Research Organization (Australia). Division of Applied Physics, 1986

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Table of Contents Determining Density Via Water Displacement Gizmo Answers

1. Understanding the eBook Determining Density Via Water Displacement Gizmo Answers
 - The Rise of Digital Reading Determining Density Via Water Displacement Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Determining Density Via Water Displacement Gizmo 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 Determining Density Via Water Displacement Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Determining Density Via Water Displacement Gizmo Answers
 - Personalized Recommendations
 - Determining Density Via Water Displacement Gizmo Answers User Reviews and Ratings
 - Determining Density Via Water Displacement Gizmo Answers and Bestseller Lists
5. Accessing Determining Density Via Water Displacement Gizmo Answers Free and Paid eBooks
 - Determining Density Via Water Displacement Gizmo Answers Public Domain eBooks
 - Determining Density Via Water Displacement Gizmo Answers eBook Subscription Services
 - Determining Density Via Water Displacement Gizmo Answers Budget-Friendly Options
6. Navigating Determining Density Via Water Displacement Gizmo Answers eBook Formats

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