

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 Answer

Joacim Rocklöv



Determining Density Via Water Displacement Gizmo Answer:

Decoding **Determining Density Via Water Displacement Gizmo Answer**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Determining Density Via Water Displacement Gizmo Answer**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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