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Student Exploration: Archimedes' Principle

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

Vocabulary: Archimedes' principle, buoyant force, density, displace, mass, volume, weight

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

1. Why does a small pebble sink in water?

Because it weighs more than the water it displaces, a little stone sinks.

2. A motorboat is a lot heavier than a pebble. Why does the boat float?

Because its weight is equivalent to the weight of the water it moves, a motorboat floats.

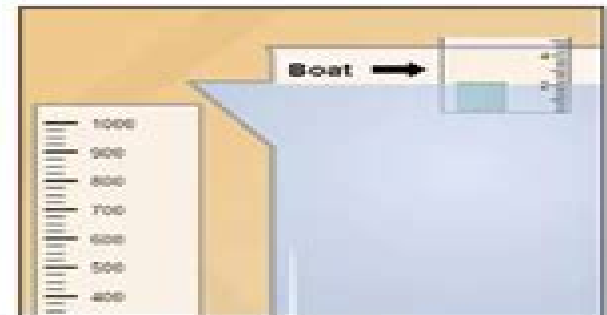
Gizmo Warm-up

When you place an object in liquid, the downward pull of gravity causes it to start to sink. As the object sinks, the liquid pushes back up on the object with a force that opposes gravity.

In the *Archimedes' Principle* Gizmo, you will see how these forces cause objects to either sink or float.

1. Check that the **Width**, **Length**, and **Height** of the boat are set to 5.0 cm. Drag one of the green **50-g cubes** into the rectangular "boat."

What happens? The boat submerges 2 centimeters into the water.



2. Add cubes until the boat sinks. What **mass** of cubes causes the boat to sink?

150 g

(Note: In this Gizmo, the mass of the boat itself is insignificant.)

3. Click **Reset**. Experiment with different boat dimensions until you create a boat that holds the most cubes without sinking.

A. What are the boat's dimensions? Width: 10 cm Length: 10 cm Height: 10 cm

B. How much mass can the boat hold without sinking? 950 g or 19 cubes

Student Exploration Archimedes Principle Answer Key

Philip Goldberg



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Table of Contents Student Exploration Archimedes Principle Answer Key

1. Understanding the eBook Student Exploration Archimedes Principle Answer Key
 - The Rise of Digital Reading Student Exploration Archimedes Principle Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Exploration Archimedes Principle 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 Student Exploration Archimedes Principle Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Exploration Archimedes Principle Answer Key

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

- Fact-Checking eBook Content of Student Exploration Archimedes Principle 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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