

# Archimedes' Principle

## Answer Key

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

**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.]*

1. Why does a small pebble sink in water?

*Answers will vary. [A small pebble sinks because it is heavier than the water it displaces.]*

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

*Answers will vary. [A motorboat floats because its weight is equal to the weight of water that it displaces.]*

### 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?

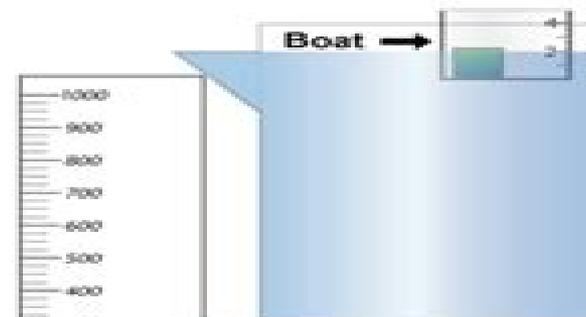
*The boat sinks 2 cm into the liquid.*

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: **10.0 cm** Length: **10.0 cm** Height: **10.0 cm**



# Archimedes Principle Explore Learning Gizmo Answers

**Arquímedes**



**Archimedes Principle Explore Learning Gizmo Answers:**

**Archimedes** Dennis Guerrier,1970      *The Works of Archimedes* Arquímedes,1900      **The Works of Archimedes**  
Archimedes,1900

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## **Table of Contents Archimedes Principle Explore Learning Gizmo Answers**

1. Understanding the eBook Archimedes Principle Explore Learning Gizmo Answers
  - The Rise of Digital Reading Archimedes Principle Explore Learning Gizmo Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Archimedes Principle Explore Learning 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 Archimedes Principle Explore Learning Gizmo Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Archimedes Principle Explore Learning Gizmo Answers
  - Personalized Recommendations
  - Archimedes Principle Explore Learning Gizmo Answers User Reviews and Ratings
  - Archimedes Principle Explore Learning Gizmo Answers and Bestseller Lists
5. Accessing Archimedes Principle Explore Learning Gizmo Answers Free and Paid eBooks
  - Archimedes Principle Explore Learning Gizmo Answers Public Domain eBooks
  - Archimedes Principle Explore Learning Gizmo Answers eBook Subscription Services
  - Archimedes Principle Explore Learning Gizmo Answers Budget-Friendly Options

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