

## Pool Cubes 2: Buoyancy

**Purpose**

To investigate the nature of the buoyant force and to see the role it plays in determining whether or not an object floats.

**Apparatus**

\_\_\_\_computer

\_\_\_\_PhET sim, "Buoyancy" (available at <http://phet.colorado.edu>)

**Discussion**

When objects are immersed in a fluid, the fluid exerts a force on them. This is the buoyant force.

**Procedure****INITIAL SETUP**

Turn the computer on and let it complete its startup cycle. Locate and open the PhET sim, "Buoyancy," and note that it opens in its "Intro" tab. Do not change the settings in the on-screen Blocks, Fluids, or Show Forces panels.

**PART A: WOOD**

**Step 1:** Measure (in the sim) and record the weight ( $W$ ) of the 5.00-kg wood block.

**Step 2:** a. Place the wood block in the water and notice that it floats.

- b. When the wood block rests on the ground, the downward gravitational force is balanced by an upward normal ("contact") force. When floating, the gravitational force is still there, but the normal ("contact") force is not. The force exerted by the fluid is the buoyant force ( $B$ ). When floating, which force is greater: the gravitational force or the buoyant force? Defend your answer.

- c. Record the value of the buoyant force acting on the wood block.

**Step 3:** a. What volume of water does the wood block displace when it floats in the water?

- b. What is the mass of that displaced water? (Note that the density of water is 1.00 kg/L.)

# Pool Cubes 2 Buoyancy Answers

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

## **Pool Cubes 2 Buoyancy Answers:**

Fuel your quest for knowledge with is thought-provoking masterpiece, **Pool Cubes 2 Buoyancy Answers** . This educational ebook, conveniently sized in PDF ( Download in PDF: \*), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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## **Table of Contents Pool Cubes 2 Buoyancy Answers**

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

6. Navigating Pool Cubes 2 Buoyancy Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Pool Cubes 2 Buoyancy Answers Compatibility with Devices
  - Pool Cubes 2 Buoyancy Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pool Cubes 2 Buoyancy Answers
  - Highlighting and Note-Taking Pool Cubes 2 Buoyancy Answers
  - Interactive Elements Pool Cubes 2 Buoyancy Answers
8. Staying Engaged with Pool Cubes 2 Buoyancy Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pool Cubes 2 Buoyancy Answers
9. Balancing eBooks and Physical Books Pool Cubes 2 Buoyancy Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pool Cubes 2 Buoyancy Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Pool Cubes 2 Buoyancy Answers
  - Setting Reading Goals Pool Cubes 2 Buoyancy Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pool Cubes 2 Buoyancy Answers
  - Fact-Checking eBook Content of Pool Cubes 2 Buoyancy 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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