

CONCEPTUAL PHYSICAL SCIENCE

Experiment

Fluid Mechanics

Buoyancy and Flotation Simulation

Pool Cubes: 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 start-up 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 ^{4.00} 3.00-kg wood block.

39.2 N

Step 2:

- Place the wood block in the water and notice that it floats.
- When the wood block rests on the ground, the downward gravitational force is balanced by an upward normal ("contact") force. When the wood block is 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 the block is floating, which force on it is greater: the gravitational force or the buoyant force? Defend your answer.

Buoyant force, because if the gravitational force was greater it would be pushed below the water.

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

39.2 N

Step 3:

- What volume of water does the wood block displace when it floats in the water?

4L

Pool Cubes Buoyancy Answers

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Pool Cubes Buoyancy Answers:

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Table of Contents Pool Cubes Buoyancy Answers

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

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