

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

R Barnett



Pool Cubes 2 Buoyancy Answers:

The book delves into Pool Cubes 2 Buoyancy Answers. Pool Cubes 2 Buoyancy Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Pool Cubes 2 Buoyancy Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Pool Cubes 2 Buoyancy Answers
- Chapter 2: Essential Elements of Pool Cubes 2 Buoyancy Answers
- Chapter 3: Pool Cubes 2 Buoyancy Answers in Everyday Life
- Chapter 4: Pool Cubes 2 Buoyancy Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Pool Cubes 2 Buoyancy Answers. The first chapter will explore what Pool Cubes 2 Buoyancy Answers is, why Pool Cubes 2 Buoyancy Answers is vital, and how to effectively learn about Pool Cubes 2 Buoyancy Answers.
3. In chapter 2, the author will delve into the foundational concepts of Pool Cubes 2 Buoyancy Answers. This chapter will elucidate the essential principles that must be understood to grasp Pool Cubes 2 Buoyancy Answers in its entirety.
4. In chapter 3, the author will examine the practical applications of Pool Cubes 2 Buoyancy Answers in daily life. The third chapter will showcase real-world examples of how Pool Cubes 2 Buoyancy Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Pool Cubes 2 Buoyancy Answers in specific contexts. This chapter will explore how Pool Cubes 2 Buoyancy Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Pool Cubes 2 Buoyancy Answers. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Pool Cubes 2 Buoyancy Answers.

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