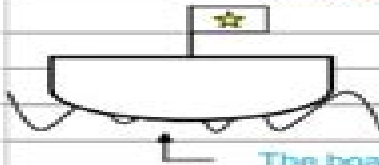


Question: Why do some objects sink and others float in water?

FLUIDS - BEHAVIOR OF LIQUIDS AND GASES

Fluid - anything that flows - gas or liquid

Buoyancy - the ability of a fluid (liquid or gas) to exert an upward force on an object immersed in it - this is called **Buoyant Force**



Archimedes principle - the buoyant force on an object in a fluid is equal to the weight of fluid it displaced by the object
The boat displaces enough water to equal weight of boat, therefore it floats.

Pascal's principle - pressure applied to a fluid is transmitted unchanged throughout the fluid

Ex. squeezing the end of a tube of toothpaste

Bernoulli's principle - as the velocity of a fluid increases, the pressure exerted by the fluid decreases

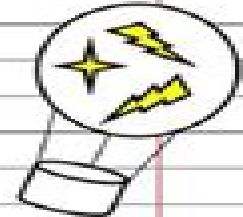
Ex. the design of an airplane wing

Boyle's Law - as the volume of the gas decreases, the pressure of a gas increases, provided the temperature does not change. Ex. weather balloon

Charles' Law - as temperature increases, the volume increases, provided pressure remains constant.

Ex. Hot air balloon

Pressure - Temperature Relationship - as temperature increases, the pressure increases, provided the volume does not change. Ex. popping popcorn



Physical Science Notebook Chapter 1 answers

Jicheng Xie



Physical Science Notebook Chapter 1 answers:

The book delves into Physical Science Notebook Chapter 1 answers. Physical Science Notebook Chapter 1 answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Notebook Chapter 1 answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Notebook Chapter 1 answers
 - Chapter 2: Essential Elements of Physical Science Notebook Chapter 1 answers
 - Chapter 3: Physical Science Notebook Chapter 1 answers in Everyday Life
 - Chapter 4: Physical Science Notebook Chapter 1 answers in Specific Contexts
 - Chapter 5: Conclusion
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