

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

Charles Pidgeon



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