

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

**JL Elias**



## Physical Science Notebook Chapter 1 answers:

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**Climate Change 2021 - The Physical Science Basis** Intergovernmental Panel on Climate Change (IPCC), 2023-07-26 The Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the physical science basis of climate change It considers in situ and remote observations paleoclimate information understanding of climate drivers and physical chemical and biological processes and feedbacks global and regional climate modelling advances in methods of analyses and insights from climate services It assesses the current state of the climate human influence on climate in all regions future climate change including sea level rise global warming effects including extremes climate information for risk assessment and regional adaptation limiting climate change by reaching net zero carbon dioxide emissions and reducing other greenhouse gas emissions and benefits for air quality The report serves policymakers decision makers stakeholders and all interested parties with the latest policy relevant information on climate change Available as Open Access on Cambridge Core      **Everything You Need to Ace Science in One Big Fat Notebook** Workman Publishing, 2018-02-06 It s the revolutionary science study guide just for middle school students from the brains behind Brain Quest Everything You Need to Ace Science takes readers from scientific investigation and the engineering design process to the Periodic Table forces and motion forms of energy outer space and the

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