

Simple Lab Report & Video Sheet

PRACTICE OF ENGINEERING: BUOYANCY LAB & VIDEO SHEET

INCLUDES TEACHER NOTES

1. Identify the purpose of the experiment and write a brief description of the experiment.

Bill Nye Buoyancy Season 1 Episode 4

Objective: To understand the concept of buoyancy and how it affects the behavior of objects in fluids.

Materials: A container of water, a small object (e.g., a rock), a large object (e.g., a block of wood).

1. Observe the objects in water. What happens?
2. The rock sinks to the bottom of the water.
3. The block of wood floats on the surface of the water.
4. The rock is denser than the water, while the block of wood is less dense than the water.
5. The rock is pushed up by a force called buoyancy.

Procedure: Place the objects in the water and observe.

Object	Volume (cm ³)	Mass (g)	Density (g/cm ³)
Rock	100	150	1.5
Block of Wood	100	50	0.5

2. Record the data and observations of the experiment. Compare the results of the experiment with the predictions made in the objective.

Buoyancy Lab

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Physical Science Buoyancy Lab Answer Guide

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