

*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 hypothesis.

## Bill Nye Buoyancy Season 1 Episode 4

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

Materials: A container of water, a small object, a large object, a scale.

1. Measure the mass of the small object.
2. Measure the mass of the large object.
3. Place the small object in the water and measure the buoyant force.
4. Place the large object in the water and measure the buoyant force.
5. Compare the results of the two experiments.

Record the results of your experiment in the table below.

Object	Mass (g)	Volume (cm <sup>3</sup> )	Density (g/cm <sup>3</sup> )
Small Object	100	10	10
Large Object	1000	100	10

2. Identify the variables of the experiment and write a hypothesis.

## Buoyancy Lab

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

Materials: A container of water, a small object, a large object, a scale.

Object	Mass (g)	Volume (cm <sup>3</sup> )	Density (g/cm <sup>3</sup> )
Small Object			
Large Object			

1. Measure the mass of the small object.
2. Measure the mass of the large object.
3. Place the small object in the water and measure the buoyant force.
4. Place the large object in the water and measure the buoyant force.
5. Compare the results of the two experiments.

Object	Mass (g)	Volume (cm <sup>3</sup> )	Density (g/cm <sup>3</sup> )
Small Object			
Large Object			

# Physical Science Buoyancy Lab Answer Guide

**S. Raizen, E.D. Britton**



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