

II.4.b Density Laboratory

Name: _____

Vocabulary: buoyancy, density, graduated cylinder, mass, matter, scale, volume

Prior Knowledge Questions (Do 1 and 2 BEFORE using the Gizmo.)

1. Of the objects below, circle the ones you think would sink in water.



2. Why do some objects float, while others sink?

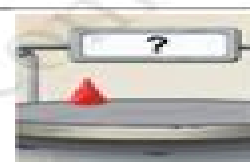
Objects with tightly packed molecules are denser than water therefore they sink. Objects with more loosely packed molecules are less dense than water and therefore they float.

Gizmo Warm-up

The *Density Laboratory Gizmo™* allows you to measure a variety of objects, then drop them in water (or other liquid) to see if they sink or float.

3. An object's **mass** is the amount of **matter** it contains. The mass of an object can be measured with a calibrated **scale** like the one shown in the Gizmo. Drag the first object onto the **Scale**. (This is object 1.) What is the mass of object 1?

19.5 g



An object's **volume** is the amount of space it takes up. The volume of an irregular object can be measured by how much water it displaces in a **graduated cylinder**. Place object 1 into the **Graduated cylinder**. What is the volume of object 1?

14.0 cm³



Note: While milliliters (mL) are used to measure liquid volumes, the equivalent unit cubic centimeters (cm³) are used for solids. Therefore, write the volume of object 1 in cm³.

4. Drag object 1 into the **Beaker of liquid**. Does it sink or float?

Sink

Activity A: Float or sink?

Get the Gizmo ready:

- Drag object 1 back to the shelf.
- Check that Liquid density is set to 1.0 g/mL.

Question: How can you predict whether an object will float or sink?

5. **Observe:** Experiment with the different objects in the Gizmo. Try to determine what the floating objects have in common and what the sinking objects have in common.

6. **Form hypothesis:** Compare the floating objects, then do the same for the sinking objects.

A. What do the floating objects have in common?

All objects that float have a density less than one but



Gizmo Density Laboratory Answers

David Baud

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Density Laboratory Answers:

New Scientist and Science Journal ,2006

Unveiling the Magic of Words: A Overview of "**Gizmo Density Laboratory Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Gizmo Density Laboratory Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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