

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.



Cruise ship

Saturn

Beach ball

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

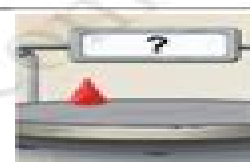
Objects with tightly packed molecules are denser than water therefore they sink. Objects with more loosely packed molecules are less dense than water and therefore they float.

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

Christian Drosten

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:

Gizmo Density Laboratory Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Gizmo Density Laboratory Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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