

Student Exploration: Density Laboratory

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

50% of Assignment Grade Simulation Portion:

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

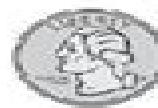
1. Of the objects below, circle the ones you think would float in water. If you cannot circle them on your computer, simply type the names here: Cruise ship, saturn, beach ball



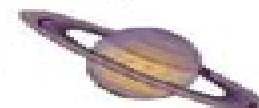
Rock



Cruise ship



Quarter



Saturn



Beach ball

2. Why do some objects float, while others sink? I think that the cruise ship and saturn are very large and dense. While the beach ball is extremely light.

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.

1. 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.)

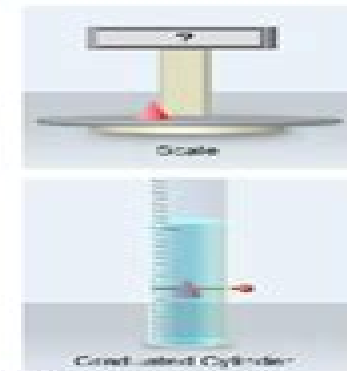
What is the mass of object 1? Ping pong ball = 3g

2. 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? 36cm³

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.

3. Drag object 1 into the **Beaker of Liquid**. Does it sink or float? Floats



Making Sense Of Density Lab Answer Key

Liying Dong



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