



Name:

Date:

12/8/20

Student Exploration: Density

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: density, mass, matter, volume

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

1. List three objects that you think would sink in water, and three objects you think would float.

Sink:

An egg, a penny, and a rock.

Float:

A ping pong ball, an air-filled balloon, a boat

2. Why do you think some things float and some things sink?

Some things float and some things sink because it all depends on how much matter is inside the object that you're using.

Gizmo Warm-up

1. In the Gizmo, drag the **apple** onto the **Scale**. The scale measures **mass**. Mass is the amount of **matter**, or "stuff," in an object.



What is the apple's mass? (Note: "g" stands for grams.)

33g

2. An object's **volume** is the amount of space it takes up. The volume of an object can be measured by using a **graduated cylinder**. Observe the graduated cylinder and the blue text showing the volume of water inside the cylinder.

- A. What is the starting volume of water in the graduated cylinder?
- B. Place the apple into the cylinder. What is the volume in the cylinder now?

400mL

444mL

The water rises in the cylinder because it is displaced, or pushed upward, by the apple. The amount of displaced water is equal to the volume of the apple.

- C. What is the volume of the apple? (Use the **Object volume** to check.)

44cm³

Note: Milliliters (mL) are used for liquid volumes, while cubic centimeters (cm³) are used for solids. One mL is the same volume as one cm³. The apple's volume is measured in cm³.

All Gizmos Answer Key Determining Density

IM Harris



All Gizmos Answer Key Determining Density:

Building Electro-Optical Systems Philip C. D. Hobbs, 2022-01-26 Building Electro Optical Systems In the newly revised third edition of Building Electro Optical Systems Making It All Work renowned Dr Philip C D Hobbs delivers a birds eye view of all the topics you ll need to understand for successful optical instrument design and construction The author draws on his own work as an applied physicist and consultant with over a decade of experience in designing and constructing electro optical systems from beginning to end The book s topics are chosen to allow readers in a variety of disciplines and fields to quickly and confidently decide whether a given device or technique is appropriate for their needs Using accessible prose and intuitive organization Building Electro Optical Systems remains one of the most practical and solution oriented resources available to graduate students and professionals The newest edition includes comprehensive revisions that reflect progress in the field of electro optical instrument design and construction since the second edition was published It also offers approximately 350 illustrations for visually oriented learners Readers will also enjoy A thorough introduction to basic optical calculations including wave propagation detection coherent detection and interferometers Practical discussions of sources and illuminators including radiometry continuum sources incoherent line sources lasers laser noise and diode laser coherence control Explorations of optical detection including photodetection in semiconductors and signal to noise ratios Full treatments of lenses prisms and mirrors as well as coatings filters and surface finishes and polarization Perfect for graduate students in physics electrical engineering optics and optical engineering Building Electro Optical Systems is also an ideal resource for professional designers working in optics electro optics analog electronics and photonics **Radio-electronics**, 1984 **Spring Meeting** American Geophysical Union. Meeting, 2000

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