



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?

400mL

B. Place the apple into the cylinder. What is the volume in the cylinder now?

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.)

44cm<sup>3</sup>

**Note:** Milliliters (mL) are used for liquid volumes, while cubic centimeters (cm<sup>3</sup>) are used for solids. One mL is the same volume as one cm<sup>3</sup>. The apple's volume is measured in cm<sup>3</sup>.

# All Gizmos Answer Key Determining Density

**Michael Seilmaier**

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.

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