Lab Sheet: Observing and Calculating Density

Materials needed	• Basin with water • Objects of different sizes and shapes • Measuring cup • Ruler • Scale
Hypothesis – what do you think will happen?	
Procedure	You will begin by observing the density of various objects. Then, follow along with the video demonstration and calculate the density of each of your objects if you wish. 1. Using the scale, measure the mass of each of the different objects. Record the mass of each object on your lab sheet, in your notebook, or using another method of your choice. 2. Place each of your objects in the basin of water to determine if they float or sink in water. Record your observations on your lab sheet. 3. Using the ruler, measure the dimensions (height, width, length, diameter) of each of the different objects. Record the dimensions of each object on your lab sheet, in your notebook, or using another method of your choice.

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4. Calculate the volume of each of the different objects. You can also use water displacement to measure the volume of the objects, as demonstrated in the video. Record the volume of each object on your lab sheet, in your notebook, or using another method of your choice.

5. Once you know the mass of each object and the volume of each object, calculate the density of each object by taking the mass and dividing it by the volume.

Observations

*Remember observations can be recorded with pictures, numbers, and/or words!

Observing density

Calculating density

	Mass	Volume	Density
Object 1			
Object 2			
Object 3			
Object 4			
Object 5			

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Conclusions	
Questions	