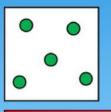
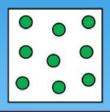
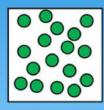
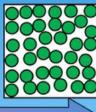


Density







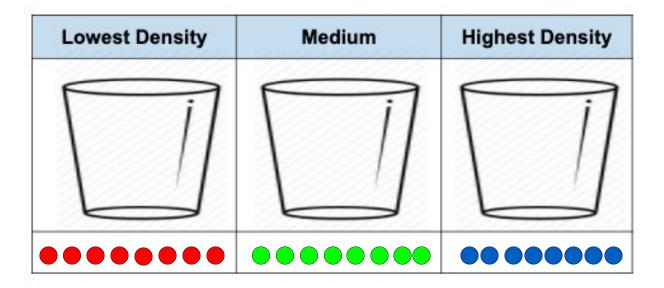


LOW

HIGH

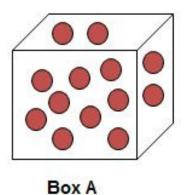
Molecules and Density

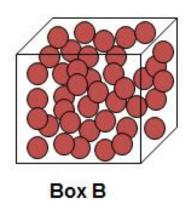
Move the molecules under each cup to demonstrate the different levels of density.



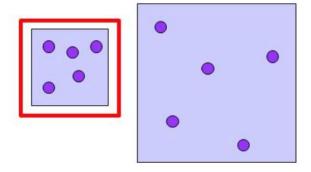
Which is more dense?

EXAMPLE 1





EXAMPLE 2



Calculating the Density of Solids

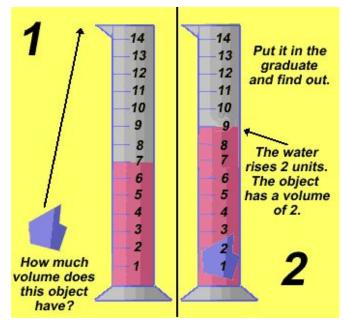
Density = Mass 🐈 Volume

<u>mass</u> = the amount of matter in the object.



Find the mass → use a scale to measure how much the object weighs in grams.

<u>volume</u> = the amount of space that the object takes up.

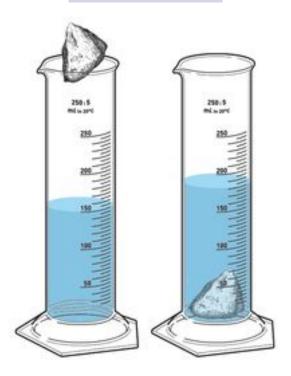


Volume of Irregular Objects

 $1 \text{ cm}^3 = 1 \text{ mL}$

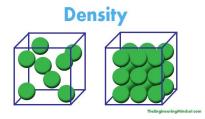
<u>Water Displacement Method --</u> Use for measuring Volume of objects with irregular shapes.

Volume = Final water level – Original water level



PRACTICE: Calculating Density of Solids

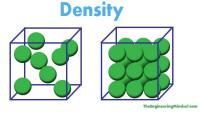
Select small solid objects that fit in a graduated cylinder and follow the steps in previous slide to calculate their density.



Object	Mass (g)	Volume (mL) = Density (g/cm³)
	-	
	+	
	*	
	•	

PRACTICE: Calculating Density of LIQUIDS

Calculating the density of a liquid is a lot easier because you just measure the mass and divide that by the total liquid you have.



Object	Mass (g)	Volume (mL) = Density (g/cm³)
	•	
	-	
	+	
	*	
	•	

