

Density of different sizes

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

Question: Does the size of an object affect the density of the object?

Hypothesis: I think

Procedure:

1. Determine the mass of each object.
2. Record the data including units.
3. Determine the volume of each object.
4. Record the data including units.
5. Calculate the density for each row including units.
6. Dry all materials & clean up.

Data Table:

Water level or equation for volume:	Object	Mass (g)	Volume (ml or cm ³)	Density (g/ml) or (g/cm ³)
40 ml	Whole crayon	4.7 g	3 ml	
30 ml	Piece of crayon	3.2 g	2 ml	
20 ml	Bigger ball of clay	11.5 g	6 ml	
20 ml	Smaller ball of clay	3.7 g	2 ml	
l x w x h	Large wooden block	80.5 g	155.6 cm ³	
l x w x h	Small wooden block	22.8 g	47.42 cm ³	