

Janae Bark  
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3B

## Mass, Volume, Density Notes

$$3/3 = 100$$

**Mass** - Measurement of the amount of matter (or stuff) in an object.

- Measured in **grams** (g)

There are 3 states of matter:

Liquid, Gas, Solid

**Volume** - Measurement of the amount of space an object makes up.

- Measured in milliliters (ml) or  $\text{cm}^3$

**Density** is defined as mass per unit volume, is the amount of matter within a certain volume.

To find density: 1. Find the mass of the object  
2. Find the volume of the object  
3. Divide:  $\text{Density} = \text{Mass} \div \text{Volume}$

**Mass** = Density  $\cdot$  Volume      **Volume** = Mass  $\div$  Density

**Warm-up** 8-20-2015

- $D = 270\text{g}/100\text{cm}^3$        $D = 2.7\text{g}/\text{cm}^3$  ✓
- $M = 1.80\text{cm}^3 \cdot 19.3\text{g}/\text{cm}^3$        $M = 34.74\text{g}$  ✓
- $V = 20\text{g}/0.50\text{g}/\text{cm}^3$        $V = 40\text{g}/\text{cm}^3$  ✓