

### Density Formula

Density of a substance can be determined by calculating its mass-to-volume ratio.

	Shorthand	Rearranged
Density = $\frac{\text{mass}}{\text{volume}}$	$D = \frac{m}{V}$	$V = \frac{m}{D}$ $m = V \times D$

-For liquids density is measured in g/mL or g/L

-For solids density is measured in g/cm<sup>3</sup>

Density of water is 1.00 g/mL

*bigger than 1.00g/mL*

A substance that had a density of 2.85 g/mL would Sink in water. It is more dense than water.

A substance that had a density of 0.82 g/mL would float in water. It is less dense than water.