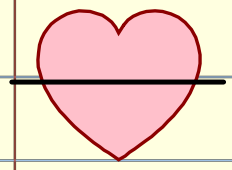
# Density and Buoyancy Notes

Density-

How much mass in every unit of volume. OR, how tightly packed the matter is in an object.



$$\frac{m}{v} = d$$

Class Units: $g/cm^3$

# Density and Buoyancy

Buoyancy-

How well something floats. Or, an object's tendency to float.

Ballast-

Mass used to balance and stabilize a vessel.

# Archimede's Principles

if the object...

FLOATS- the object's mass is equal to the mass of the displaced liquid

SINKS - the object's volume is equal to the volume of the displaced water