

Buoyancy Notes

What is Buoyancy? An object is buoyant in water due to the amount of water it **displaces** or 'pushes aside'. If the weight of water that is displaced by an object in water exceeds the weight of the object, then the object will float.

Density: ($D = M \div V$) when the volume of an object is *LARGER* than the mass, the density is less than 1.0 g/cm^3 and the object will **FLOAT** in water.

BrainPOP: Watch this short movie and complete the following.

	Positive Buoyancy	Neutral Buoyancy	Negative Buoyancy
Describe			
Draw a Picture			

1. The amount that the water level rises is _____ to the volume of water that is displaced by the object.
2. The force trying to float an object is _____ to the weight of the water that is displaced by the object.
3. Why does a boat float if the material it is made from, for example metal, is denser than water?

Cut along dotted lines and place into notebook