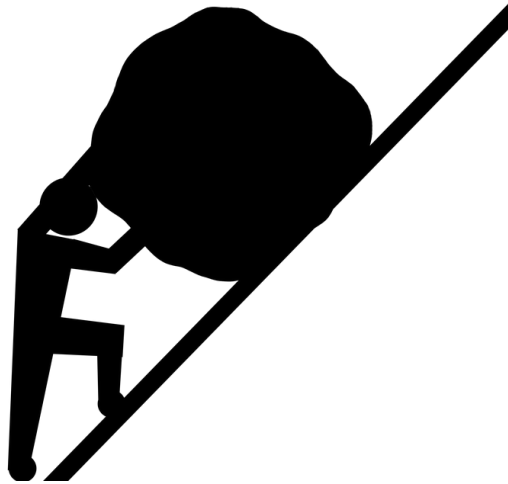


Forces

A force is a push or a pull



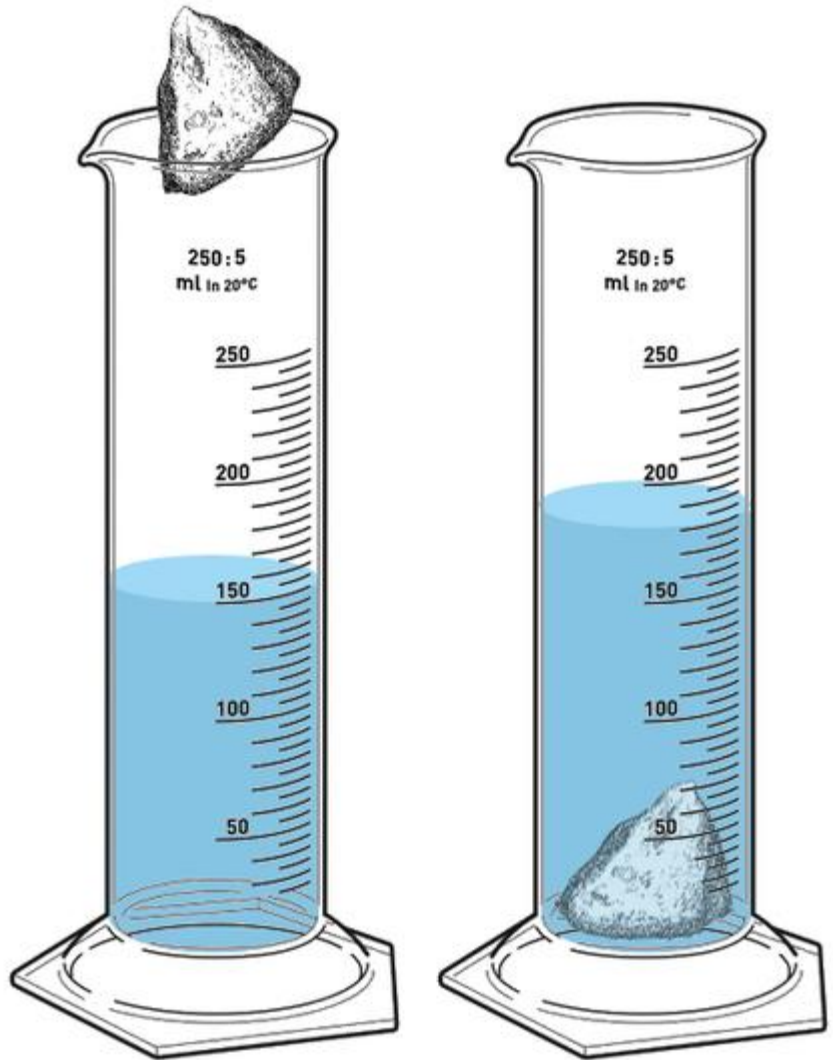
Push



Pull

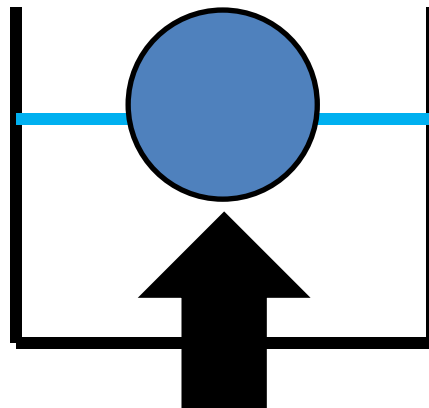
Displacement

When an object is put into water, it displaces some of the water (it pushes it out of the way)



Upthrust

When the water is displaced, it tries to push back. The force this creates is called upthrust.

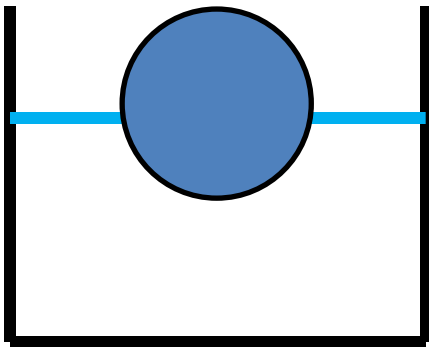


Upthrust

Buoyant / Buoyancy

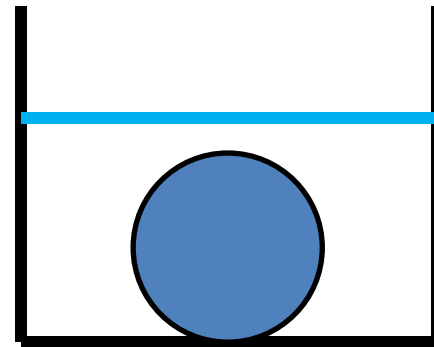
If an object floats, we say:

- It is buoyant
- It has buoyancy



Buoyant

Has buoyancy



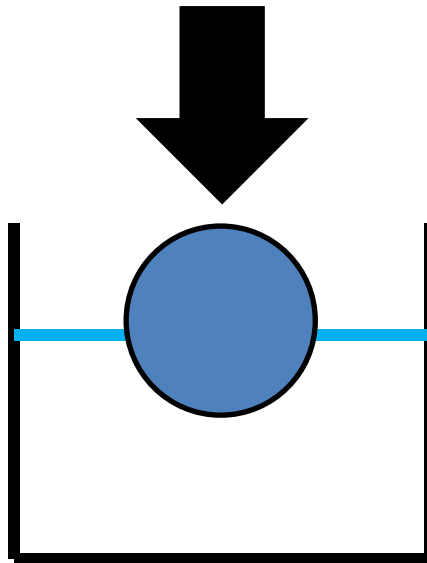
Not buoyant

No buoyancy

Gravity

Gravity pulls things towards the
centre of the Earth

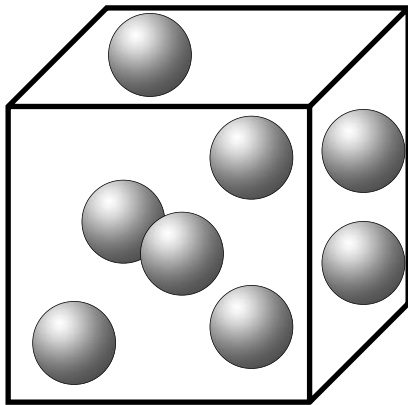
Gravity



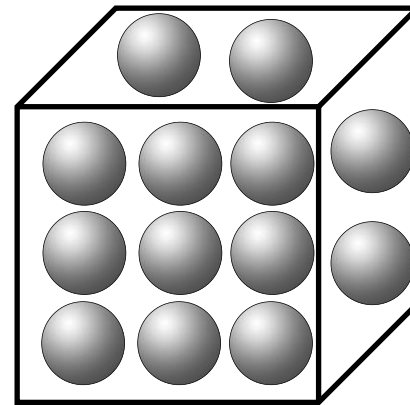
Density

Density is a measure of the amount of matter (stuff) in an object relative to its size.

Less dense

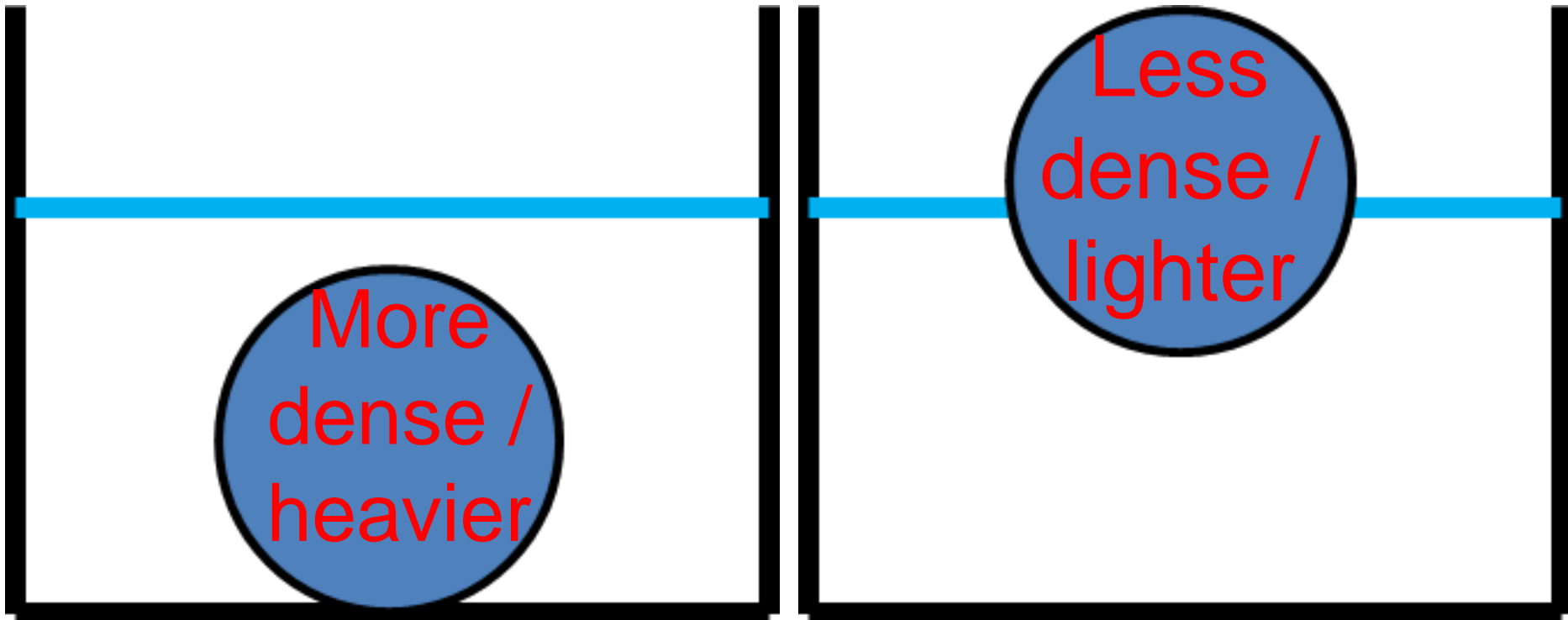


More dense



Weight

If two objects are the same size and shape, but one is denser, then it will be heavier and more likely to sink



Source of images

Pull - [https://commons.wikimedia.org/wiki/File:Tug_o_war_\(5798655160\).jpg](https://commons.wikimedia.org/wiki/File:Tug_o_war_(5798655160).jpg)

Push – <https://pixabay.com/illustrations/struggle-push-uphill-battle-effort-1271657/>

Displacement - https://commons.wikimedia.org/wiki/File:Displacement_measurement.png