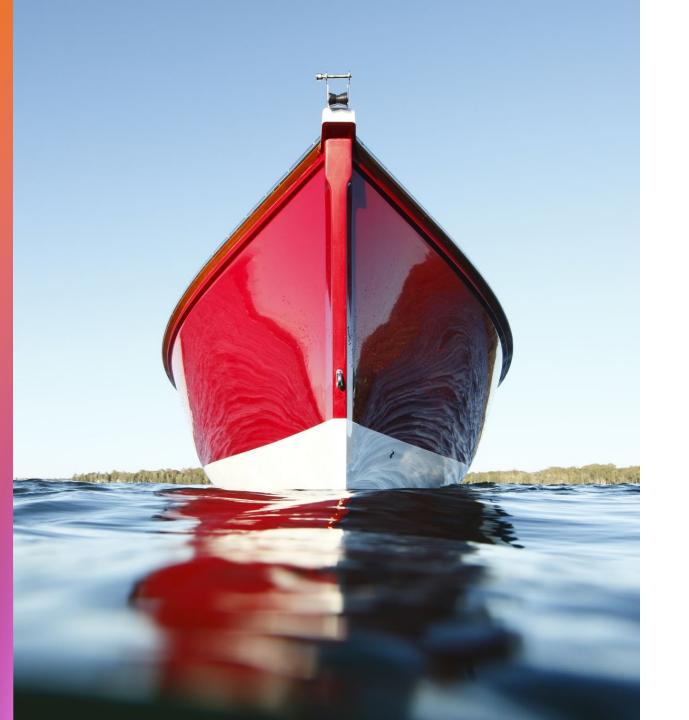


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Archimedes' Principle

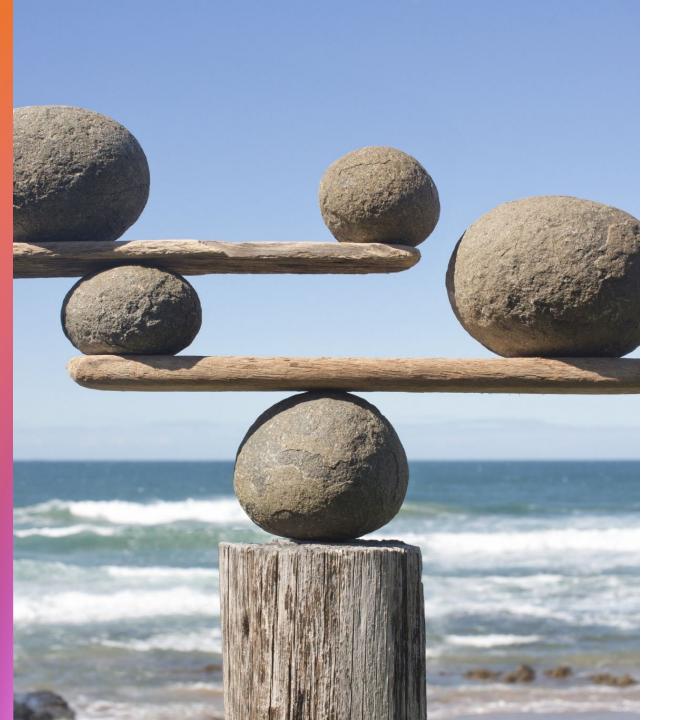
Archimedes' principle states that any object, wholly or partially submerged in a fluid, experiences a buoyant force equal to the weight of the fluid displaced by the object.



Example 1:

Scenario: When a ship is placed in water, it displaces a volume of water equal to the volume of the portion of the ship submerged in the water.

Outcome: The ship floats because the buoyant force is equal to or greater than the weight of the ship.



Example 2:

Scenario: When a stone is placed in water, it displaces a volume of water equal to the volume of the stone submerged.

Outcome: The stone sinks because the buoyant force is less than the weight of the stone.



Homework - Monday

Send me your work before 10 PM tonight

Which one of these will sink? Why?







	Α	В	С	D
Weight of stone	2.8	0.4	3	6
Weight of displaced water	1.6	0.8	3	10

Speed = Distance * Time

How many seconds in a minute?

How many metres in a kilometre?

0.6kms equals how many metres?



If a rocket travels at .4km/second, how many metres will it travel in 2 mins?

Look up the fire triangle and explain it in 50 words

