Force.

Anything that causes a body to speed up, slow down or change direction of motion.



We generally have pull forces and push forces.

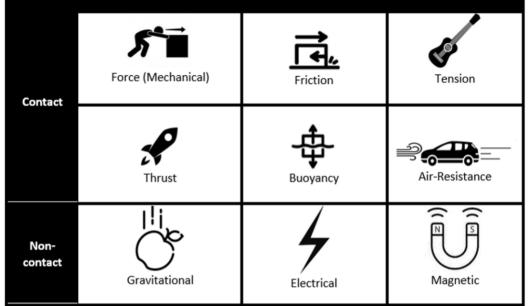




There are *contact* and *non-contact* forces.

Force types.

These types of forces are generally the most common you come across.



Combining Forces

Balanced forces are seen when two (or more) forces act to cancel each-other's effect out.

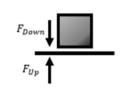


Unbalanced forces are seen when two (or more) forces action does not cancel each-other effect out.

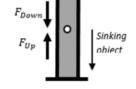


Forces and Motion.

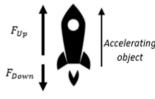
Forces affects the motion of objects in the following ways.



Balanced forces – the body isn't moving so it continues not moving.



Balanced forces – the body is moving so it continues moving at the exact same speed.



Unbalanced force – the body will speed up, or slow down for as long as the forces act on it.

Forces pairs.

Every force experiences a force of equal strength acting in the opposite direction



The book puts a force acting down on the table.

The table puts an equal force acting up on the book.



The moon feels a gravitational force from the earth.

The earth feels an equal gravitational force acting towards the moon.