

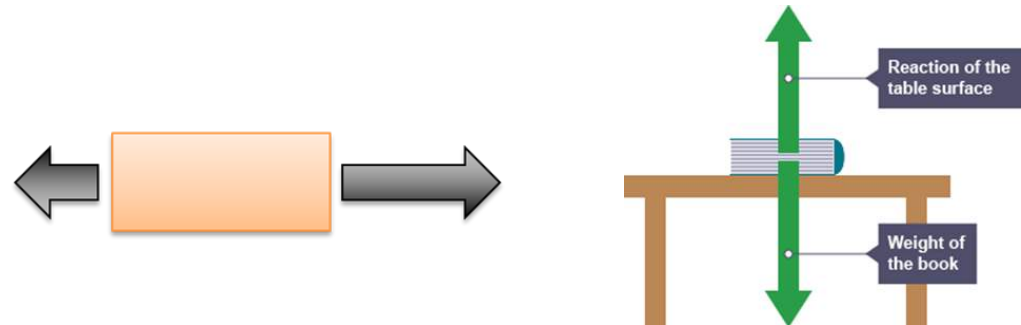
Year 7 Forces Knowledge Organiser

1. Forces keywords

Keyword	Meaning
Force	Something that makes a change happen
Contact force	Can only act when two things touch
Non-contact force	Can act on things not touching
Balanced (forces)	When forces are equal and opposite each other also called equilibrium
Unbalanced (forces)	When opposing forces are not equal to each other
Resultant (force)	The overall force once all the forces are considered
Force arrows	Show direction and size of a force
Opposing forces	Forces working in opposite directions
Weight	The amount gravity pulls an object down
Pressure	Force shared over an area
Newton	Unit force is measured in

2. Types of force

Force	Between	Contact or non-contact	Example
Friction	Two moving surfaces	Contact	Brakes
Upthrust	An object and water	Contact	Boat
Reaction	Two stationary objects	Contact	Book on shelf
Air resistance	A moving object and air	Contact	Plane
Gravity	Two masses	Non-contact	You and the earth
Magnetic	Magnets and magnetic materials	Non-contact	Magnet picking up a nail



3. Friction

Contact Force	Between two moving surfaces	Reduced by lubrication	Slow down falling or accelerating objects