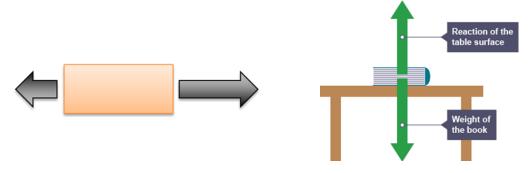


## Year 7 Forces Knowledge Organiser



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 <b>equilibrium</b>			
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 di- rections			
Weight	The amount gravity pulls an object down			
Pressure	Force shared or 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 mag- netic materials	Non-contact	Magnet picking up a nail		



3. Friction			
Contact Force	Between two mov- ing surfaces	Reduced by lubrica- tion	Slow down falling or accelerating objects