


Knowledge Organiser for Year 3 (Science)

Key idea: Forces and Magnets


Tier 3 Vocabulary	
<i>Force</i>	A push or pull on an object which can cause it to move, change speed, direction or shape. Measured in Newtons (N).
<i>Magnet</i>	A material or object that produces a magnetic field. It attracts or repels magnetic objects, including iron.
<i>Attract</i>	To pull towards. Opposite of repel.
<i>Repel</i>	To push away. Opposite of attract.
<i>Friction</i>	The resistance of motion when one object rubs against another. Friction causes objects to slow down and the energy becomes heat.
<i>Balanced force</i>	Two forces of equal size acting in opposite directions on an object so that it will stay still or continue to move in the same way.
<i>Unbalanced force</i>	Two forces of unequal size acting in opposite directions causing an object to move, change speed, direction or shape.

Types of Magnets


Bar



Horseshoe




Disc




Magnetic Poles

Magnets have North and South poles. Opposite poles 'attract' each other whereas the same poles 'repel' each other.

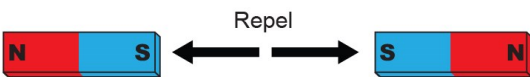
Attract



Repel

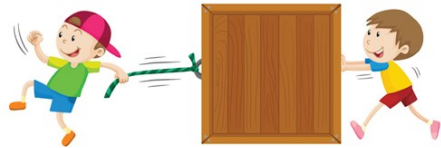


Repel



Forces

A force is a push or a pull.



Friction

friction
a force acting in the opposite direction

