

Crowle Primary Academy - Knowledge Organiser



Science Focus Forces and Magnets Year 3/4 Summer Term 1

What? (Key knowledge)		
Forces		
What is a force?	A force is either a push or a pull.	
Forces can make things	Speed upSlow downChange shapeChange direction	
A force that speeds something up.	The child is pushing the car to speed it up.	
A force that slows something down.	The woman is pulling the dog to slow it down.	
A force that changes the shape of something.	The can is being squeezed so that it changes shape and becomes smaller.	
A force that changes the direction of something	When a ball is hit with a racquet, it will change direction.	
Magnetic forces		
Why is magnetism different?	 All of the forces above need contact between two objects for them to happen. Magnetic forces can act at a distance. 	
Magnets have a north pole and a south pole.	South Pole North Pole	
Magnets attract or repel each other.	Attract: Repel: North and south attract. North and north will repel. South and south will repel. Opposites attract.	

Types of magnets		
Bar		
Ring	0	
Button		
Horseshoe		

What? (Key vocabulary)		
Spelling	Definition/sentence	
squeezed	press firmly (usually with fingers)	
contact	physically touching something	
magnetic	can be attracted to a magnet	
attract	to come together	
repel	to force away/apart	

Diagrams and symbols

Magnets only attract certain types of metals, other materials such as glass, plastic and wood aren't attracted.



Metals such as iron, nickel and cobalt are attracted to magnets.



Most metals, however, are not attracted to magnets. These include copper, silver, gold, magnesium, platinum and aluminium and more.

