## Paganel Primary School -Knowledge Organiser

What? (Key Knowledge)				
Forces				
	A force is either:			
What is a force?	A push or     A pull			
Forces can make things	Speed up     Slow down     Change shape     Change direction			
A force that speeds something up	The child is pushing the car to speed it up.			
A force that slows something down	The girl is pulling the dog to slow it down.	100		
A force that changes the shape of something	The can is being squeezed so that it changes shape and becomes smaller.	3/8		
A force that changes the direction of something	When the ball is hit with the racket, it will change direction.			
Magnetic Forces				
Why is magnetism	All of the forces above n between two objects for			
Why is magnetism different?	All of the forces above n	them to happen.		
	All of the forces above n between two objects for	them to happen.		
different?  Magnets have a North	All of the forces above n between two objects for Magnetic forces can act	at a distance.		
different?  Magnets have a North Pole and a South Pole  Magnets attract or	All of the forces above n between two objects for Magnetic forces can act South Pole	at a distance.		
different?  Magnets have a North Pole and a South Pole	All of the forces above n between two objects for Magnetic forces can act  South Pole  Attract:	at a distance.  North Pole  But North and		
different?  Magnets have a North Pole and a South Pole  Magnets attract or	All of the forces above n between two objects for Magnetic forces can act South Pole Attract: Repel:	at a distance.  North Pole  But North and		
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different?  Magnets have a North Pole and a South Pole  Magnets attract or repel each other	All of the forces above n between two objects for Magnetic forces can act South Pole Attract: Repel: North and South attract. North or South and South	at a distance.  North Pole  But North and		
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Magnets have a North Pole and a South Pole  Magnets attract or repel each other  Bar  Ring  Button  Horseshoe	All of the forces above n between two objects for Magnetic forces can act South Pole Attract: Repel: North and South attract. North or South and South	North Pole  But North and th will repel.		

What? (Key Vocabulary)		
Spelling	Definition/Sentence	
push	a push is the force that moves an object away from something,	
pull	a pull is the force of bringing an object closer	
magnet	is a rock or a piece of metal that can pull certain types of metal toward itself	
attract	to draw to or toward something else A magnet attracts iron.	
repel	to push something away	
North Pole	the most northern point of the earth	
South Pole	the most southern point of the earth	

Year Group: 3 Topic: Forces

## Take it further at home...

- Explore the uses of magnets in everyday objects
- Group everyday objects into magnetic and non- magnetic by testing with magnets
- Design a mechanism that requires a magnet to enable it to work
- Fill in the vocabulary chart try and do some from memory.

## Diagram 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, aluminium and more.





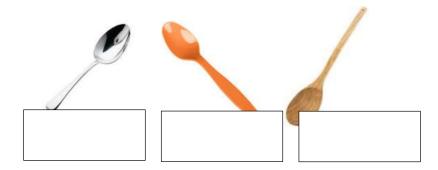








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