Knowledge Organiser - Science: Iron Man

What? (key Knowledge)						
Types of Rocks						
What is force?	A force is either: • A push • A pull					
Forces can make things	Speed up.Slow 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 girl 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 the ball is hit with the racket, it will change direction.					
	Magnetic Forces					
Why is magnetism different?	All of the forces above needed 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 Pole					
Magnets attract or repel each other.	Attract: North and South attract. But North and North or South and South will repel.					
Magnetic Forces						
Bar						
Ring	0					
Button						
Horseshoe						

Forces and Magnets					
What? (key Vocabulary)					
Spelling	Definition/Sentence				
Squeezed	Firmly press (usually with the fingers)				
Contact	Physically touching something				
Magnetic	Can be attracted to a magnet				
Attract	To come together				
Repel	To become part of a liquid.				

Diagrams and Symbols

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



Metal 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



Possible Experiences

- Explore the uses of magnets in everyday objects
- Group everyday objects into magnetic and nonmagnetic by testing with magnets
- Design a mechanism that requires a magnet to enable it to work.

Can magnets only attract magnets?

No - Magnets can attract other things too. See the diagram on the opposite side.