

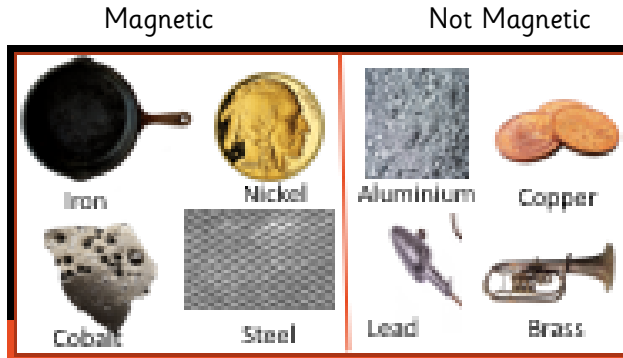
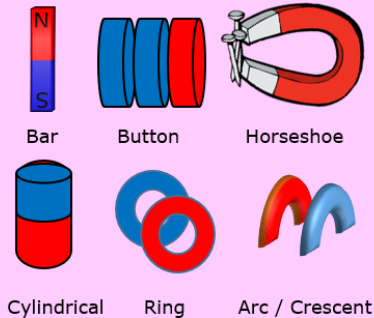
Physics – Forces and Magnets

What is a Magnet?

A magnet is a special object which produces an area of magnetic force around itself called a **magnetic field**.

If a **metal** object enters this magnetic field, they will be attracted towards the magnet and end up sticking to it. (Non-metallic objects such as wood, plastic or fabric would not be attracted to it.)

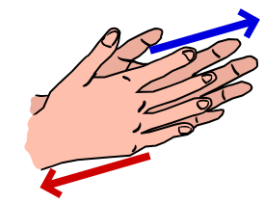
Here is a range of different magnets:



A **push** is a force that moves an object away from you.



A **pull** is a force that brings an object closer to you.



Friction is a force that slows things down when two surfaces rub together.



Gravity is a force that pulls objects towards the Earth.

Forces	A force is a push or a pull. They can make things move, stop, change their direction or their shape.	Attract	When you place the north pole of one magnet near the south pole of another magnet, they are attracted to one another. They pull towards each other.
Friction	A force between two surfaces that are sliding, or trying to slide, across each other.	Repel	When you place like poles of two magnets near each other (north to north or south to south), they will repel each other. They push away from each other.
Contact force	A contact force is any force that requires contact to occur.	Resistance	A force that acts in the opposite direction of moving objects, slowing them down.
Non-contact force	A non-contact force is a force which acts on an object without coming physically in contact with it.	Motion	The action or process of moving or being moved
Magnet	A magnet is a metal which attracts or repels other materials.	Surface	The top layer of something

