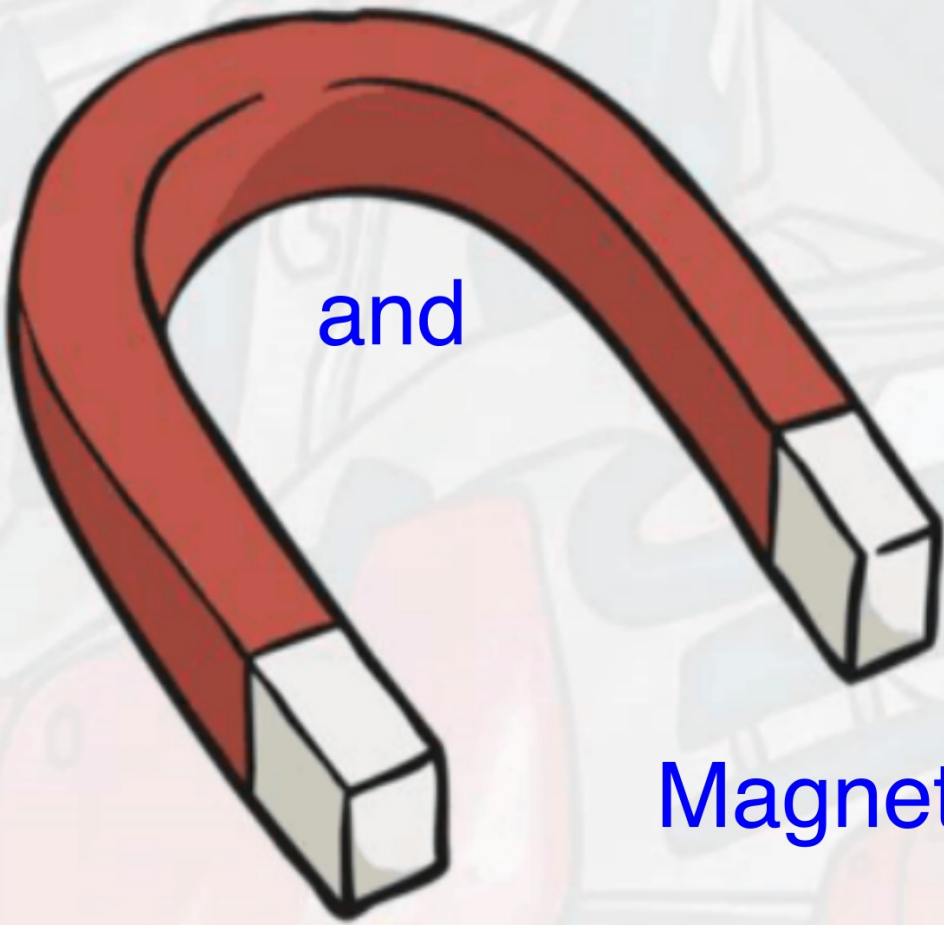


I would like you to find out what is
magnetic around your home.

Magnets

and

Magnetism



What did we find out?



Magnetic materials are attracted to magnets. This means they will stick to a magnet.

Non-magnetic materials are not attracted to magnets, and will not stick to them.



What is magnetic around your home?

Why do you think they are?

Make a list.

Who Is Right?



These children are using a magnet to pick up different objects. They are talking about what magnets are and how they work. Which child's ideas do you agree with?

I think the magnet is sticky. It has some special glue on it to make things stick to it. This is how we can pick things up using the magnet.

I think the magnet produces a force to pull the different objects onto it.

I think magnets are special objects that connect to any other object.



What Is a Magnet?



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

If certain materials enter this magnetic field, they will be attracted to the magnet. This will cause the materials to stick to the magnet.

Try it! Move a magnet slowly towards a steel paper clip. As the paper clip enters the magnetic field around the magnet, it will 'jump' towards the magnet.

Time to do some testing! Write your prediction and discuss with your partner why you think this. Then test it to see if you were right.

Object	Prediction	Test Result
paper clip with plastic		
paper clip		
book		
penny 5p coin		
spoon		
knife		
fork		

If you don't have these items, you can use whatever you have at home.

**Magnetic materials are always made of metal,
but not all metals are magnetic.**

Iron is magnetic, so any metal with iron in it will be attracted to a magnet. Steel contains iron, so a steel paperclip will be attracted to a magnet too.

Most other metals, for example aluminium, copper and gold, are NOT magnetic.

The three most
common
magnetic metals
are
IRON
NICKEL
COBALT



Time to write out your conclusion!



psssst...
This is what you found out!

The magnetic objects were _____. This is because they were made out of one of the magnetic metals such as _____. This made them magnetic.