

Metals and Magnets

What is a magnet?

A magnet is an object that is made of materials that create a magnetic field.

Magnets have at least one north pole and at least one south pole.

When two magnets are close to each other they will create either a pull (attract) or push (repel) force.

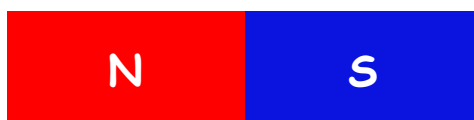
If you try to put two of the same poles together, the magnets will repel (push away) from each other. If you put the different poles together, they will attract (pull towards) each other.

Can you say if the magnets below will repel or attract to each other?

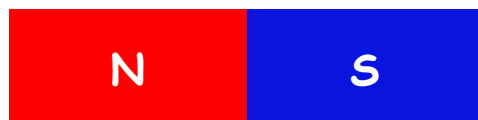
Circle the correct answer



Repel/Attract



Repel/Attract



Repel/Attract

Magnets are all around us

Magnets can be found in many of the objects we use every day including:

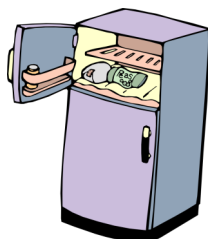


A compass uses a magnet to point North



They are used in some laptops to tell the computer if it is open or closed

Magnets are used to hold the fridge door shut



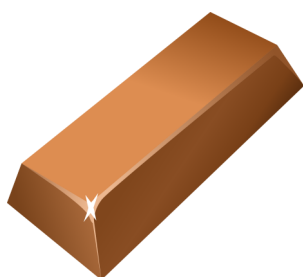
Magnets are used in vending machines to sort the coins



Magnetic Materials

Materials that are magnetic are always made of metals, but not all metals are magnetic.

Iron is magnetic so any metal containing iron will also be magnetic such as steel. We call these metals **ferrous metals**



Most other metals such as copper, aluminium, lead and gold are not magnetic. We call these metals **non-ferrous metals**

Can you spot the magnetic objects in your home or classroom?

Be Careful to not put magnets on any electrical objects

Write down your observations below.

Object (draw a picture of it)	Is it magnetic?	What material do you think it is made of?