

Date _____



Name _____

Magnets

Can you find out the answers to these questions? Explain your answers using scientific reasoning where relevant.

1. Does tin foil attract to a magnet?

2. Does an aluminium drink can attract to a magnet?

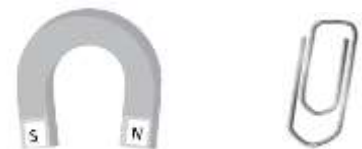
3. Name 5 objects in your classroom that are attracted to a magnet.

4. Name 5 objects in your classroom that are not attracted a magnet.

5. What happens if you place a north pole of a magnet near the north pole of another magnet?

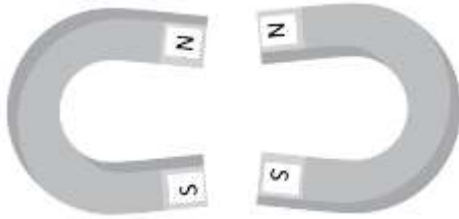
You will need a magnet with the poles labelled and access to paper clips. Predict and test how many paper clips each pole can hold. Ensure you link the paper clips together. Adding one at a time as you test.

Pole	Prediction	Result

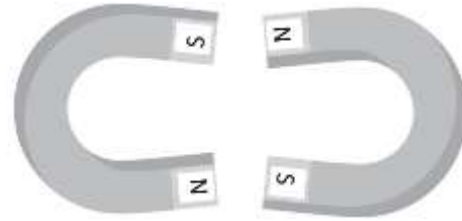


Explain your results. Were they what you predicted?

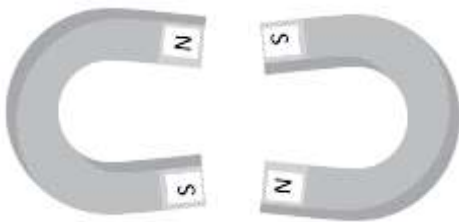
Look at the images below. Circle whether these magnets would attract or repel from one another.



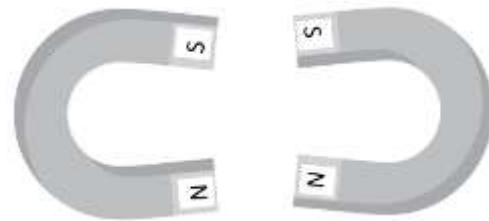
Attract Repel



Attract Repel



Attract Repel



Attract Repel

Can you list any uses for magnets in everyday life?



Item	Uses



In some questions, alternative answers may be acceptable. The likeliest answers are given below. If questions have more than one answer, teachers should use their own judgement when marking.

Can you find out the answers to these questions?

1. Does foil attract to a magnet?

No. Foil wrapping is made from aluminium.

2. Does an aluminium drink can attract to a magnet?

No. Drinking cans made from aluminium do not attract magnets.

3. Name 5 objects in your classroom that are attracted to a magnet.

***Any metal containing Iron will be attracted to a magnet. The amount of iron will affect attraction if it's an alloy.**

4. Name 5 objects in your classroom that are not attracted a magnet.

***Non-ferrous metals and non-metals.**

5. What happens if you place a north pole of a magnet near the north pole of another magnet?

Both poles will try to repel one another, pushing each other away.

You will need a magnet with the poles labelled and access to paper clips. Predict and test how many paper clips each pole can hold. Ensure you link the paper clips together. Adding one at a time as you test.

Pole	Prediction	Result
North	**	**
South	**	**



Explain your results. Were they what you predicted?

Children will reason why an infinite number of paper clips can't be held. They will reason if there are differences between the poles during testing and discuss factors affecting the test.

Look at the images below. Circle whether these magnets would attract or repel from one another.



Can you list any uses for magnets in everyday life?



Item	What it does
Directional compass	Helps with navigation, uses the earth's magnetic field.
Speakers	Converts electrical signals into sound.
Crane picker	Helps separate magnetic from non-magnetic metals.
Door seals in fridges	The magnets are placed in fridge door seals to keep the door shut.
Electric motors	Magnets are found in electric motors.

