

TRUE or FALSE? Correct the false sentences.



- Bar magnets can be switched on and off.

- Bar magnets have one pole: north.

- The north pole of a bar magnet has a positive magnetic charge.

- Bar magnets repel metals such as iron, steel and nickel.

What do bar magnets attract? Classify these objects in the table. Then, test your ideas.



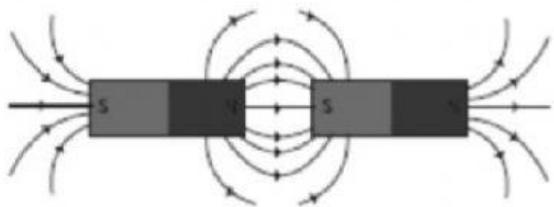
scissors pencil a fridge magnet a plastic bag a key a coin plasticine
an electrical wire a needle cotton thread a ruler a bar magnet

Objects that are attracted to a bar magnet

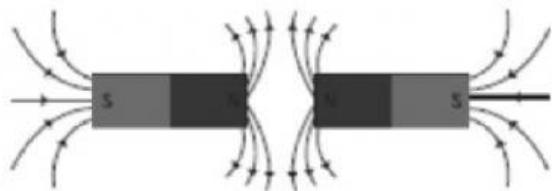
Objects that are repelled by a bar magnet

Objects that are not attracted or repelled by a magnet bar

Look at the pictures and complete the descriptions:



These two bar magnets are _____ each other. The magnetic field lines go from the _____ pole of the first magnet to the _____ pole of the other.



These two bar magnets are _____ each other. The magnetic field lines don't go from one magnet to _____.

Complete the text about the magnetosphere using the words in the box:



north compass bar magnet Sun magnetic atmosphere

Our planet, the Earth, has a _____ field that can be detected by a _____. It's called the magnetosphere and it extends below the surface of the planet and out into the _____. The magnetosphere resembles the magnetic field of a _____, with the magnetic south close to our geographical _____ pole. The magnetosphere deflects harmful radiation from the _____. As a result, it's extremely important for life on Earth. Without its protection, many species would become extinct.

Match the words to the definitions:



1. The magnetosphere

a) A magnetised needle that helps

us navigate.

2. The geographical north pole

b) The Earth's magnetic field.

3. Solar radiation

c) Harmful energy produced by
the Sun.

4. A compass

d) The south pole of the
magnetosphere.

Name the odd one out and explain why:



- compass needle north atmosphere

- iron Sun radiation harmful

- magnetosphere north pole atmosphere compass

- south pole magnetic field Sun north pole
