

## TRUE or FALSE? Correct the false sentences.



- Bar magnets can be switched on and off.

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- Bar magnets have one pole: north.

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

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

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



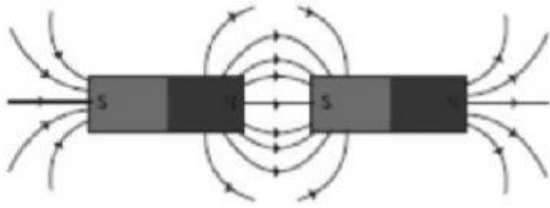
scissors   pencil   a fridge magnet   a plastic bag   a key   a coin   plasticine  
an electrical wire   a needle   cotton thread   a ruler   a bar magnet

**Objects that are  
attracted to a bar  
magnet**

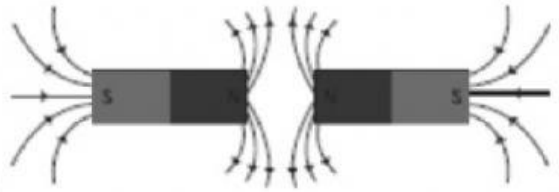
**Objects that are  
repelled by a bar  
magnet**

**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
2. The geographical north pole
3. Solar radiation
4. A compass

- a) A magnetised needle that helps us navigate.
- b) The Earth's magnetic field.
- c) Harmful energy produced by the Sun.
- d) The south pole of the magnetosphere.

## Name the odd one out and explain why:



- compass    needle    north    atmosphere
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- iron    Sun    radiation    harmful
- 

- magnetosphere    north pole    atmosphere    compass
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- south pole    magnetic field    Sun    north pole
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