

Question

Name two magnetic materials

Answer:

Iron and cobalt

Question

Name the first magnet.

Answer:

Lodestone

Question

Name three non-magnetic materials.

Answer:

Paper, plastic and clay.

Question

How many poles are there in a magnet?

Answer:

Two

Question

Can we have an isolated north or south pole?

Answer:

No

Question

How can you separate a magnetic substance from a mixture?

Answer:

By using a bar magnet, the magnetic substance is separated from a mixture.

Question .

In which direction does a suspended magnet come to rest?

Answer:

North-south direction

Question

To which part of the magnet do none or only a few iron filings stick?

Answer:

Minimum number of iron filings stick to the middle part of the magnet.

Question :

What happens when similar poles come close to each other?

Answer:

They repel each other

Question

What are non-magnetic materials? Explain with examples.

Answer: Non-magnetic materials are those materials that do not get attracted to magnets. For example, paper, wood, plastics, etc.

Question

What are properties of magnets?

Answer:

The properties of magnets are:

1. It attracts iron pieces towards itself.
2. It always aligns itself in the same direction if allowed to rotate freely.
3. It is composed of oxides of iron (Fe_3O_4).

Question :

Categorise the given substances into two groups—magnetic and non-magnetic.

Key, Glass, Wood, Nail, Book, Rubber, Fork, Sand, Iron particles, Chalk, Alpin

Answer:

Magnetic	Non-magnetic
Key, Alpin, Iron particles, Nail	Glass, Wood, Chalk, Fork, Book, Rubber, Sand

Question :

Why does bar magnet always point in north-south direction?

Answer:

Bar magnet always points in north-south directions when left freely suspended because earth itself behaves like a magnet and north pole of bar magnet is attracted towards south pole of earth's magnet and vice-versa.