

8J Magnets and electromagnets

literacy in science

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Answer all the questions below:

 Click mouse to reveal answer

1) Unscramble the following words:

lepo

agticnem

amscofs

inro

2) Make three sentences using the following nine words or phrases:

magnet
compass
electromagnet

exerts
direction
electric current

force of attraction
north and south
magnetic field

3) Match the word or phrase with the right meaning:

Magnetic field



A magnet's same poles are pushed away from one another

Attraction



The region where a magnetic material experiences a force

Repulsion



A magnet's opposite poles are pulled towards each other

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Answer all the questions below:

1) Unscramble the following words:

pole

magnetic

compass

iron

2) Make three sentences using the following nine words or phrases:

magnet

compass

electromagnet

exerts

direction

electric current

force of attraction

north and south

magnetic field

3) Match the word or phrase with the right meaning:

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complete the sentence

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Place the right word or words to complete the sentence:

 Click mouse to reveal answer

move

force

iron

opposite

lines

search

magnet

stroking

vibrate

- a) A magnet exerts a_____ of attraction on other magnets, iron, nickel and cobalt.
- b) There is a magnetic field around a _____ and also around the Earth.
- c) Loudspeakers work by using large magnets to_____ the speaker membrane.
- d) You can magnetise iron by _____ it with a permanent magnet.
- e) In magnets, _____ poles attract, same poles repel.
- f) Iron filings show the_____ of force around a bar magnet.
- g) Electromagnets are used by army personnel to_____ for buried land mines.
- h) We can sort scrap aluminium from scrap_____ by using an electromagnet.
- i) A simple door bell uses an electromagnetic to_____ the striking clanger.

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complete the sentence

Place the right word or words to complete the sentence:

move

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- a) A magnet exerts a force of attraction on other magnets, iron, nickel and cobalt.
- b) There is a magnetic field around a magnet and also around the Earth.
- c) Loudspeakers work by using large magnets to vibrate the speaker membrane.
- d) You can magnetise iron by stroking it with a permanent magnet.
- e) In magnets, opposite poles attract, same poles repel.
- f) Iron filings show the lines of force around a bar magnet.
- g) Electromagnets are used by army personnel to search for buried land mines.
- h) We can sort scrap aluminium from scrap iron by using an electromagnet.
- i) A simple door bell uses an electromagnetic to move the striking clanger.