

# Magnetic Attraction

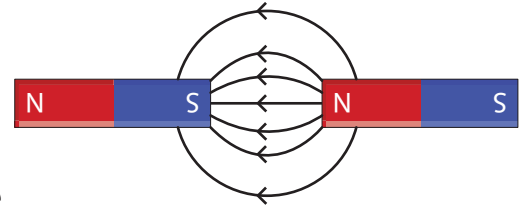
by Katie Clark

Science is full of amazing laws and processes.

These are the rules by which our world works. You have probably heard about energy, motion, or gravity.

There are laws that rule over each of these things.

There are also laws and processes that tell light, heat, and sound what to do.



Magnetism is a force that emits a force. This pushes certain types of metals away.

Many people have a magnet on their refrigerator or they may have small magnets.

In nature, natural magnets are found in these amazing rocks.

One of the most important uses of magnetic force, the compass. Earth has a magnetic force. Earth has a magnet inside the compass, so the compass points toward the north.

It is a piece of material that might also push certain

a magnet on their refrigerator. These are small magnets.

People discovered magnets using them ever since.

Using magnetic force, the Earth itself has a magnetic pole. It attracts the

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But what is a magnetic force? How does it work?

Magnetic attraction works this way. Imagine a magnet with a protective force field around it. That force is constantly moving in and out of the magnet. It moves in a steady motion. It pushes out at the north pole of the magnet. It flows in at the south pole.

Name : \_\_\_\_\_

When it comes into contact with a metal that is susceptible to magnetic attraction, the force moving into the magnet pulls the metal with it. This makes the metal stick to the magnet. It can sometimes be hard to pull the magnet and metal apart.

Two magnets will stick together. They will also repel each other or push each other away. There is a reason for this! As mentioned, magnets have a north pole and a south pole. On one side the force flows in, and on the other side the force flows out.

If you put two magnets near each other on their sides which flow out, their force fields will be flowing towards each other.

If you place the magnets with their force fields flowing out, their force fields will be flowing away from each other. There is a saying that goes like 'like repels like' meaning if you put two north poles together they will repel. But if you put one north pole and one south pole together they will attract.

Lots of items can be attracted to magnets. Iron, nickel, and cobalt are the most affected. Some magnets attract themselves when they meet a magnet.

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# Magnetic Attraction

1) How does the author do the 'context setting' in paragraph 1 before introducing the topic of Magnetism?

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2) Why does a com

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3) Which of the fol

- a) What magn
- b) What purpo
- c) When magn
- d) What attrac

ge?

4) Write briefly about how the saying "like poles repel, unlike poles attract" is reflected in human life?

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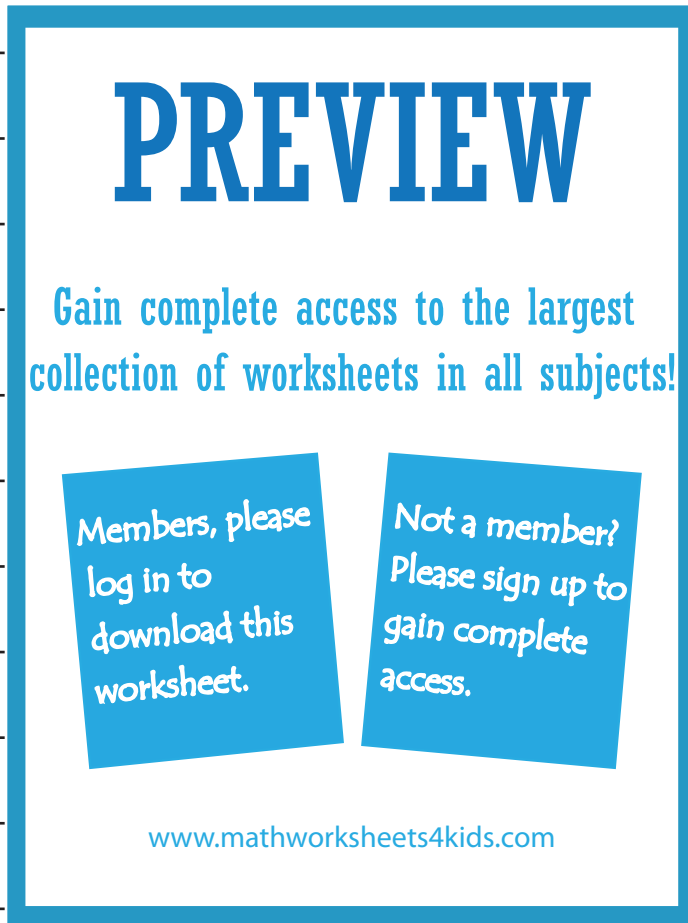
- 5) Make a list of 4 words related to magnets from the text and use them in sentences.

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# Magnetic Attraction

- 1) How does the author do the 'context setting' in paragraph 1 before introducing the topic of Magnetism?

**The author sets the context by talking about how science is full of amazing laws and processes by which our world works. Then she leads the reader to terms like energy, motion, or gravity and mentions how these laws and processes govern light, heat, and sound.**

- 2) Why does a compass needle point towards the North Pole?

**This is because**

**the Earth has a magnetic field.**

**This force attracts**

**the needle towards the North Pole.**

**toward the north**

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- 3) Which of the following is not a magnetic material?

a) Iron

b) Steel

c) Wood

d) Aluminum

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- 4) Write briefly about how the saying "like poles repel, unlike poles attract" is reflected in human life?

**People with different or opposite character traits tend to get well with each other, and those with similar ones often don't.**

# Magnetic Attraction

5) Make a list of 4 words related to magnets from the text and use them in sentences.

**Answers may vary.**

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