

EXPERIMENTING WITH MAGNETS

Experiment 1

Take a paperclip and stroke it with a magnet in the same direction 30 times. Now put it near another paper clip. Draw what happens.

What is your conclusion?

Experiment 2

How many paperclips can you hang from the end of a bar magnet?

My estimate:

Result:

Experiment 3

What part of the magnet has the strongest magnetic force? To find out, put a bar magnet in a pile of paperclips. Lift it out. Where do most paperclips hang? Draw what happens.

What is your conclusion?

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Experiment 4

Put 2 bar magnets on a table. Draw what happens when you put

a) one red end and one blue end together

b) 2 blue ends together

c) 2 red ends together

What is your conclusion?

What happens when you try this with other magnets that are a different shape?

Experiment 5

Can you move a magnet without touching it? Explain how and draw it.

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Experiment 6

Put a bar magnet in a dish and float it on water. What does it point towards?

Can you find out why it does this?

Experiment 7

How can you set up a fair experiment to show what thickness of paper, card or plastic a magnet will work through?

(Hint: What will you keep the same? What will you change?)

Draw and record your results below.

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