

To teachers We have prepared worksheets to accompany the experiments in the instructions, which you can copy and use in your teaching.

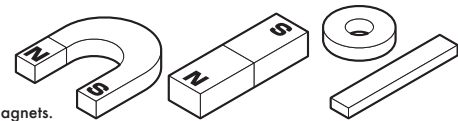


Magnet (Type SB) WORKSHEET

Name _____ Year _____ Class _____

Find out what is and is not attracted to magnets

Experiment 1 What is attracted to magnets? • Find out what can be attracted by magnets

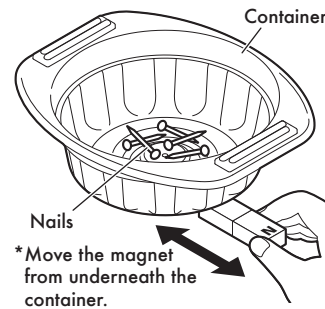


☆Circle the items that are attracted to magnets and draw a cross for items that are not attracted to magnets.

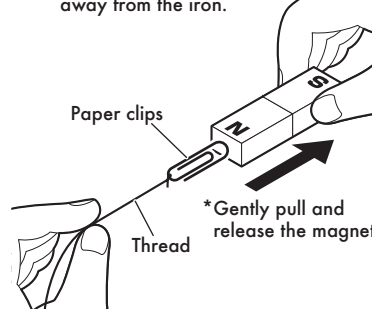
Attracted by magnets	Prediction	Result	Attracted by magnets	Prediction	Result

Experiment 2 Strength of magnet

Find out if the magnet can attract iron, even if there is non-magnetic material in-between.



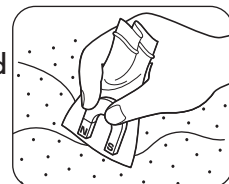
Find out if the magnet can attract the iron even when you move magnet away from the iron.



Let's Try!

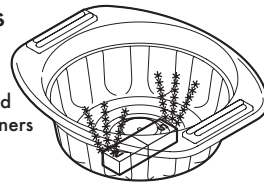
Collect iron sand

• Let's put the magnets in the sandbox.



Play with pipe cleaners

• Place a bar magnet under the container and let the pipe cleaners stand on it.



☆What happened to the nail?

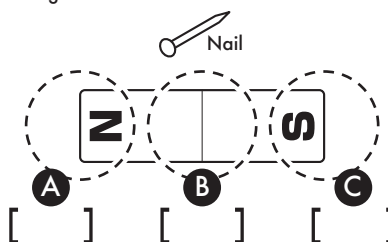
☆What happened to the paper clip?

What are the properties of the magnet?

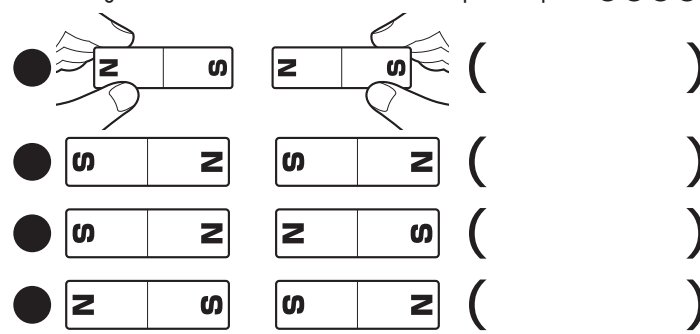
Experiment 3 Poles of the magnet

• Move the two bar magnets close to each other and check the response at points D E F G.

• Find out which point A B C of the bar magnet is the nail attracted to the most



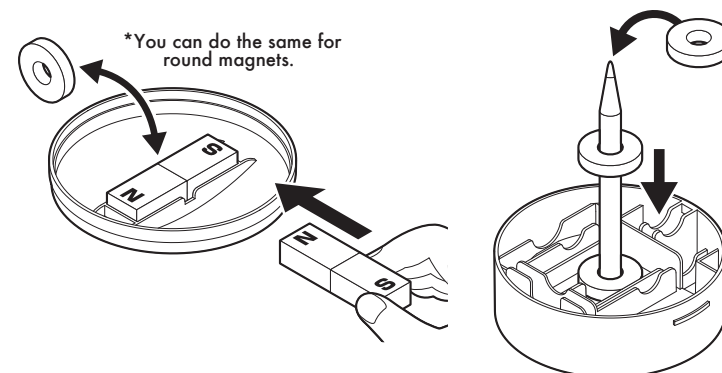
☆ Tick in the box the point where the nail is most attracted to.



☆Write down in the brackets what happened to the magnet

Various experiments with poles

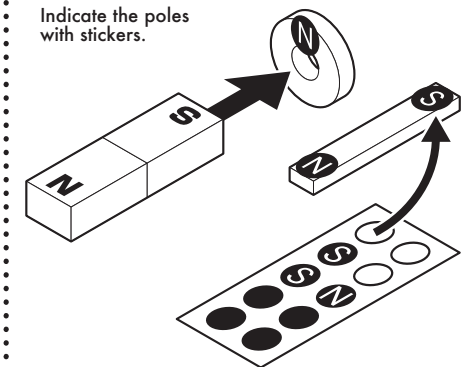
- Place a bar magnet on the lid of the case and bring another bar magnet close to it.
- Place the pencil at the bottom of the case and pass a round magnet through it.



*You can do the same for round magnets.

Magnetic poles are not known

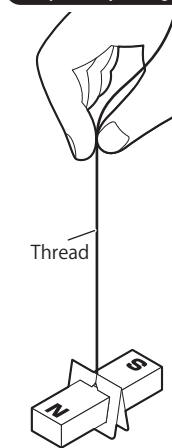
- Put the bar magnets close to each other to find out where the poles are. Indicate the poles with stickers.



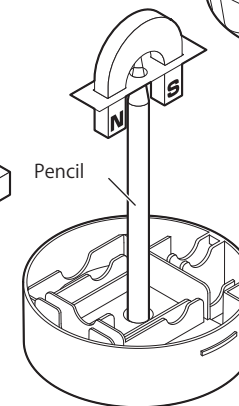
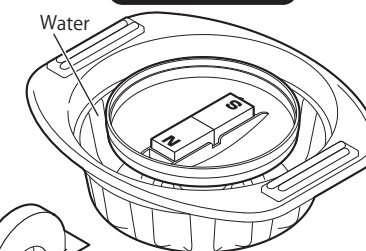
Experiment 4 Magnet suspended by string

- Find out what happens to a magnet that is allowed to move freely, as shown in the diagram.

Suspend by string



Float on the water



Place on pencil

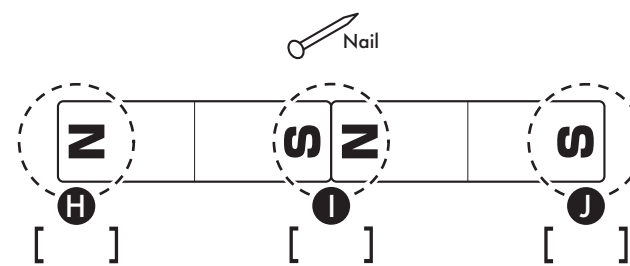
☆ What happened to the N and S poles when you use thread, pencil and water respectively?

- Compare with the compass needle to see if there are any differences in movement.

☆Were there any difference from the compass?

Let's Try! 2 Magnets

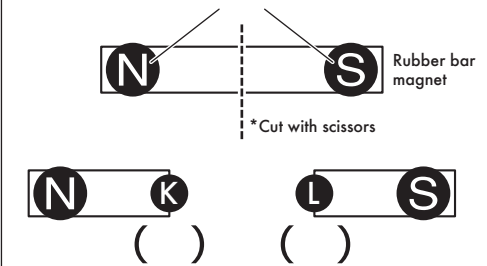
- Find out which point H I J of the bar magnet is the nail attracted to the most



☆ Tick in the box the point where the nail is most attracted to.

- Find out what happens to the poles K L when a rubber bar magnet is cut in half.

* Check the pole and paste the N/S stickers over them.



☆ Write N or S in the brackets.