

# TESTING THE MAGNET

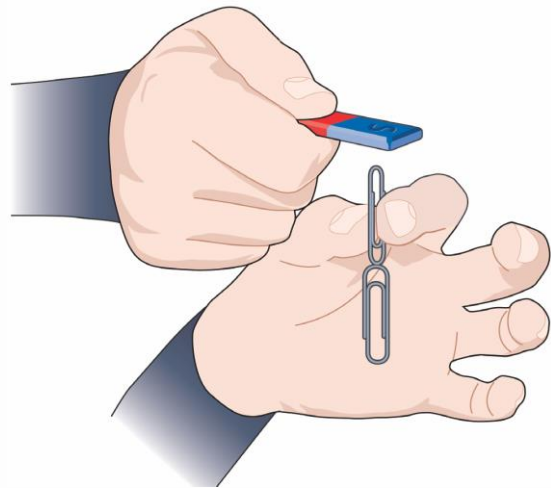
Look at the diagrams and read the instructions to work out how to complete each activity.

## Activity 1: How many paperclips can your magnet hold, in a chain?

Hold the bar magnet horizontally.

Hold one paperclip so that it is attracted to the magnet.

Carefully bring a second paperclip towards the first one to see if it can be held in place by the magnetic attraction.



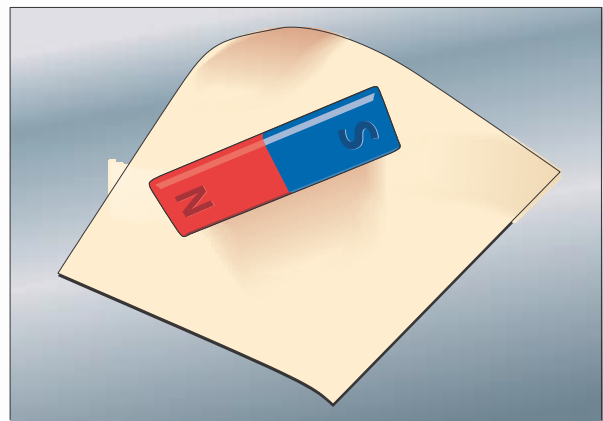
## Activity 2: How many pieces of paper can your magnet hold?

Find a flat, vertical metal surface that is magnetic.

You may need to test a few until you find a surface that is magnetic.

Use the bar magnet to hold a piece of paper onto this surface, like a fridge magnet.

Add more pieces of paper, to find out how many your magnet can hold onto the magnetic surface.



# TESTING THE MAGNET

## **Activity 3: How high can a paperclip jump?**

Fix a ruler to the edge of the table, with the zero lined up with the table top. You can use sticky tape to do this.

Place a paperclip on the table, close to the zero on the ruler.

Hold the magnet near the top of the ruler.

Slowly bring the magnet down towards the paperclip until the paperclip is attracted to the magnet and jumps up off the table.

Carefully, measure this distance the paperclip jumps.

## **Activity 4: How far can a paperclip slide?**

Lay the ruler on the table and place the paperclip next to the zero.

Rest the magnet on the table at the other end of the ruler. Slowly move the magnet towards the paperclip until the paperclip is attracted to the magnet and slides along the table.

Carefully, measure the distance the paperclip slid.

## **Activity 5: What is the heaviest object that your magnet can pick up? What does it weigh?**

Look around you and find some objects made of magnetic materials.

Which of these can you pick up with your magnet?

Weigh these objects.