

Forces – Magnetism

Please use the link to find the video for this worksheet:

<https://home.empiribox.com/lessons/forces/magnetism/?token=272411dOrp8sruU5B4G5w47DO9HB>

LESSON STARTER

Magnetic or not?

Which of these objects do you think is magnetic? Draw a circle around those you think are magnetic.

 table	 key	 spoon	 cup	 lego
 chair	 ball	 pencil	 crayon	 book
 fork	 plate	 shirt	 scissors	 shoes
 can	 lunch box	 sock	 knife	 nail
 jumper	 bottle	 coin	 note	 door
 screwdriver	 tin	 box	 drawer	 trousers
 zip	 bricks	 ruler	 pencil case	 coat
 CD	 saucer	 paper clip	 screw	 scarf

Do you notice anything about the ones you have circled?

Try and explain what made you pick these items.



When you've finished, watch the video to see how many you got right.



What have we learned so far?

We have learned that magnets are a force. We also know that they act over a distance. In other words they don't need to touch an object to make it move. We also know that magnets can attract and also repel an object depending on what it is!

Now watch the experiment on the video.



What did you notice when you were watching the experiments? Try and think

Of at least 5 things!

1. _____
2. _____
3. _____
4. _____
5. _____

B. PRESENTING & ANALYSING DATA

When scientists carry out investigations, it is really important that they capture data to make sure they can then answer the questions that they have set themselves. The scientist on the video has asked you to complete the following:

Year 3 & 4 pupils – You are carrying out experiments to answer the following question:

Does the number of times I stroke the needle with a magnet affect the strength of the magnetised needle?

What kind of data would you capture to show what happens and why?

Your challenge!

Your challenge is to go and find items in your house or school that are magnetic and those that are not magnetic. Use the fridge magnet from our investigation to test each item.

In the table below write the names of the items that are magnetic in the left hand column and those that are not magnetic in the right hand column.

Magnetic or not!





