

Quick Quiz

1. Magnets have 2 poles they are called?
2. What happens when you try to connect two identical poles?
3. True or False: Gravity is the force that causes a paperclip to be attracted to a magnet?

Quick Quiz

1. Magnets have 2 poles they are called?

North and South

2. What happens when you try to connect two identical poles?

They repel each other.

3. True or False: Gravity is the force that causes a paperclip to be attracted to a magnet?

False - it is magnetism.

Who Is Right?



These children are using a magnet to pick up different objects. They are talking about what magnets are and how they work.

Which child's ideas do you agree with?

I think the magnet is sticky. It has some special glue on it to make things stick to it. This is how we can pick things up using the magnet.

I think the magnet produces a force to pull the different objects onto it.

I think magnets are special objects that connect to any other object.



LO: To explore magnetic materials

- *Identify magnetic and non-magnetic materials.*
- *Sort materials*
- *Identify types of metals*

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How do magnets help in a scrapyard?

Part of [Science](#) | [Magnets](#)

Duration 01:47



More Clips

-  Magnets and springs (clip compilation)
-  Magnets and their invisible force
-  Super powerful magnets

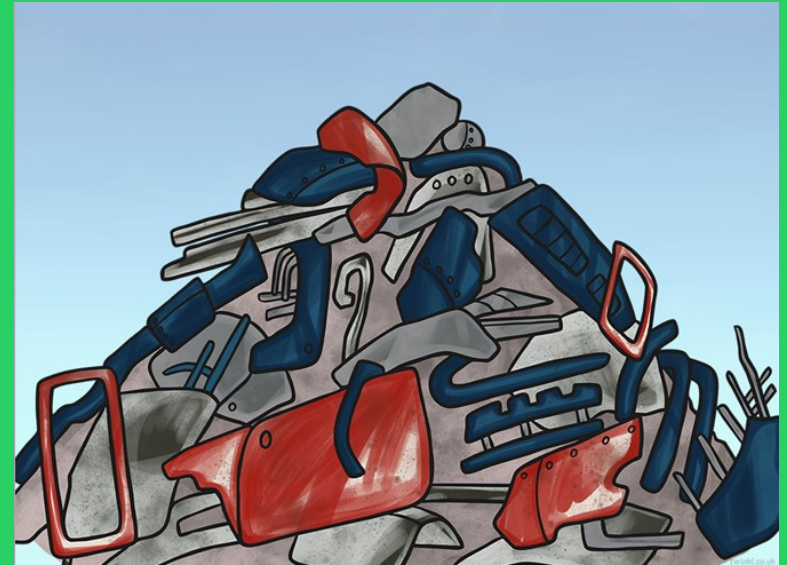
All KS2 Magnets videos

<https://www.bbc.co.uk/bitesize/clips/zcntsbk>

Imagine that you are in charge of a scrapyard like the one in the clip you have just watched. You have a big jumble of materials to sort out, and you need to separate the **magnetic** materials from the **non-magnetic** materials.

Use a magnet to attract materials, and remove them from the pile.

Any materials that are left in the pile are non-magnetic.



Can you collect a random selection of objects from around your home. Make sure you have a mixture of materials.

Now write the LO and draw the following table in your book...

[illegible]

Now you are going to see which of the objects you collected are attracted to the magnet.

Pick your first object and write what it is in the first column on your table.
Then make a prediction (guess) as to whether you think it will be attracted to the magnet or not.
Then test it and fill in your results.

Like this:

Object	Prediction	Outcome
Wooden spoon	Will be attracted	Wasn't attracted

Look at your results.

*What do you notice about the materials attracted
to the magnet?*

We call these magnetic materials.

In your books write the heading:

Are all metals magnetic?



What do you think? Make a prediction.

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Which materials are magnetic?

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<https://www.bbc.co.uk/bitesize/topics/zyttyrd/articles/zw889qt>

What are the names of
the metals that are
magnetic?

Magnetic metals:

Iron

Steel

Nickel

Did you find any magnetic metals?

In your books complete:

All metals are/are not magnetic because.....