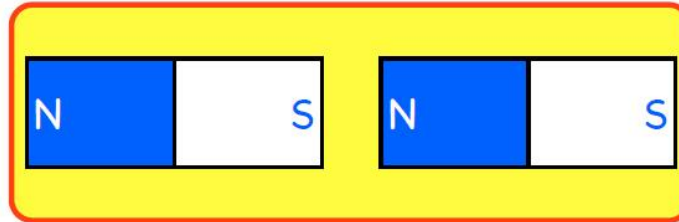
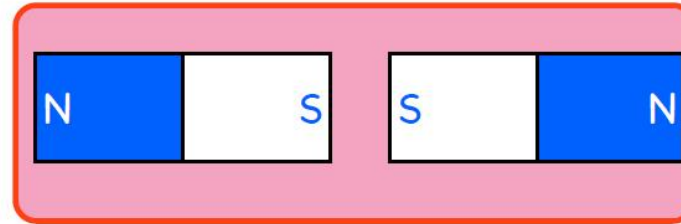
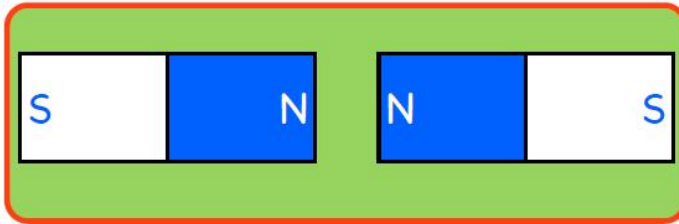


Unit 3 Week 6 Other Learning
Thursday Science

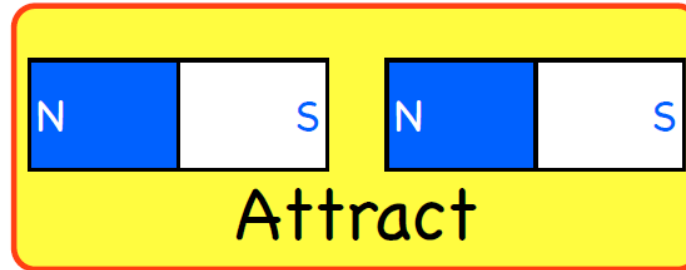
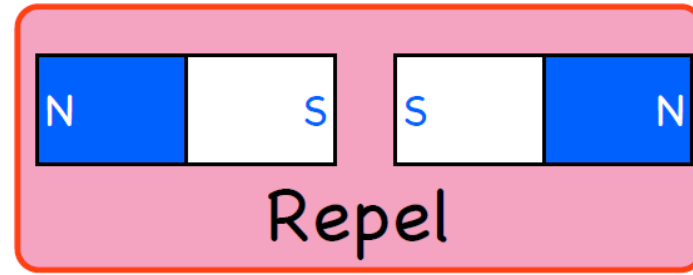
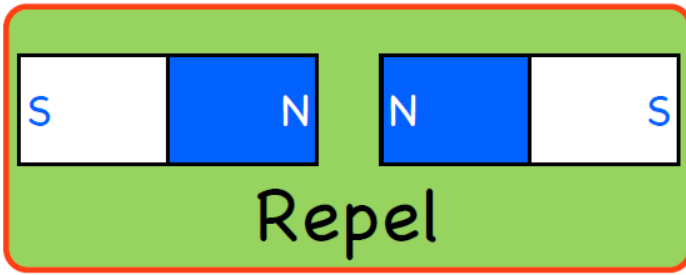
Simmering



Which of these magnets will **attract**
and which will **repel**?



Answers on the next page..



Did you get each one right? Remember, poles that are the same repel and poles that are opposite attract.

We have found out that magnets can attract or repel each other but can you think of any other materials that are magnetic (meaning they are attracted to magnets)?



Forces and Magnets

Learning Objective:

To investigate uses for magnets.

Can you
remember which
materials are magnetic
and which aren't?



It is only metals that are attracted to magnets. Plastic, wood and other materials are never magnetic. However, not all metals that are magnetic. Iron and steel are both magnetic whereas copper, brass and aluminium are not. Some alloys (a mixture of two or more metals) can also be magnetic if they contain iron, steel, nickel or cobalt.

How many uses for magnets can you think of? Discuss your ideas then list them on the next slide.



Can you explain how each of these pictures represents a use for magnets?



KRW
AP





Today we will be researching some different uses for magnets. What different sources of information could we use to find out about some of the ways in which magnets are used in everyday life?



Match the cards to the pictures...

Magnets are used to separate materials for recycling.	Magnets are used to secure notes and pictures to fridges.	Magnets are used in computers.
Magnets are used in televisions.	Magnets are used in compasses to find out which direction you are facing.	Magnets are used in maglev trains so the train floats on the track.
Magnets are used in hospitals in MRI machines.	Magnets are used in credit cards.	Magnets are used in electric can openers.
Magnets are used in lots of children's toys.	Magnets are used in electric guitars.	Magnets are used in microphones.

Did you know all these objects used magnets?...

Do any surprise you?

Magnets are used in credit cards.



Magnets are used in lots of children's toys.

Magnets are used in electric guitars.



Magnets are used in televisions.

Magnets are used in compasses to find out which direction you are facing.



Magnets are used in maglev trains so the train floats on the track.



Magnets are used to secure notes and pictures to fridges.

Magnets are used in computers.



Magnets are used in hospitals in MRI machines.



Magnets are used in electric can openers.



Investigating Uses of Magnets

Your challenge is to investigate different uses for magnets. Choose one or choose more than one if you want.

Maglev Trains
Recycling
Everyday Uses
Electromagnetism

What sources of information will you use to find out the information you need?

How will you record your findings?

How will you present the information you have gathered?

Here are a few websites that may help...

https://kids.kiddle.co/Maglev_train How do maglev trains work?

Why Are Magnets Used in Recycling?

https://www.ehow.co.uk/info_8350688_childrens-science-magnets-used-recycling.html

If you want to send me your work, please email it to info@broadfield.oldham.sch.uk. Address it Miss Hanley. Take a photo or scan it and attach it to the email.