

Use the circles to help you with your learning

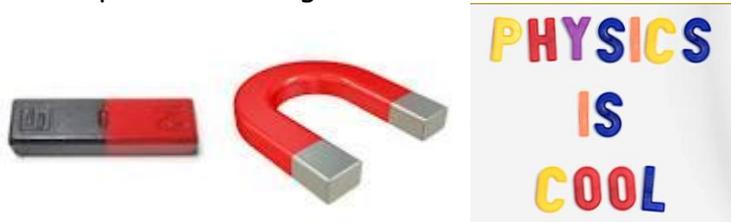
😊 I know this well

😐 I know this a bit

☹ I don't know this yet

I know that **some** metals are attracted to magnets and I know that **all** non-metals are not attracted to magnets.

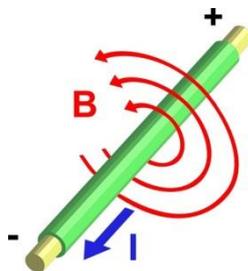
I can give some examples of how magnets are used.



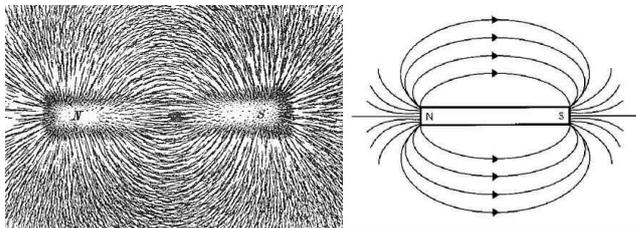

I "may" know that the ends of magnets are called 'poles.'

I understand what is meant by a Magnetic field

I know that when current passes through a wire, a magnetic field is created around the wire.




I "may" be able to plot out and draw what magnetic fields look like.




I "may" know that looking at magnetic field lines can tell us how strong the magnetic field is.

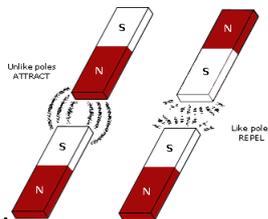
I "may" know that the north pole of a magnet will point north when it floats, or is able to move freely.



I "may" know that magnetic and electrostatic forces will repel or attract each other;

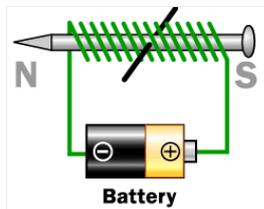
- Similar forces will repel each other.
- Opposite forces will attract each other.
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I can identify when Magnetic forces will attract each other and when they will repel each other




I know what is meant by an electromagnet.

I can make a simple electromagnet using some wire and a metal core (like an iron nail.)




I know that bells, buzzers and relays contain electromagnets.

I can design and carry out an investigation into what things affect the strength of an electromagnet.

I know what a Solenoid is, and can explain how it works on the principle of an electromagnet.

I can compare the properties, uses and applications of different magnets.

I "may" be able to compare and contrast magnets, electromagnets and super-magnets.

I "may" be able to investigate the forces between magnets and super-magnets.