



- In Science electrical resistance is something in a circuit which slows the flow of a current around the circuit.
- If the resistance is high, the current is low
- Units to measure resistance is Ohms
- If the resistance is high, the wire can become hot

- ### Uses of magnetism
- Fridge magnets
 - compasses
 - Motors
 - Trains
 - Healing
 - Scrap yards

- ### Generating Electricity
- Non-renewable
- Fossil fuels
 - Nuclear
- Renewable
- Geothermal
 - Hydroelectric
 - Wind
 - Wave
 - Solar
 - Biomass

Electromagnets over permanent magnet

Electromagnets are very useful because unlike normal (permanent) magnets, they can easily be turned on and off. The crane has a large electromagnet, which is turned on to lift scrap iron and steel, and turned off to drop it somewhere else.

Uses of electromagnets - Electric Bell

- In an electric bell, the electromagnet attracts the arm of the clanger, making it strike the bell.
- The clever part is, that in doing so, it breaks the circuit, which turns off the electromagnet.
- So the clanger goes back to its original position.
- This completes the circuit again, turning the electromagnet back on, which attracts the clanger, which strikes the bell.
- This goes on and on and so the bell rings and rings until you take your finger off the switch.