

Y9 Physics Of Climate Change: Knowledge Organiser

The Periodic Table is a list of all the known types of atom in the universe, including all the metals (Left and middle) and non-metals (right)

Hydrogen is ... weird!

Metals are on the left and in the centre.

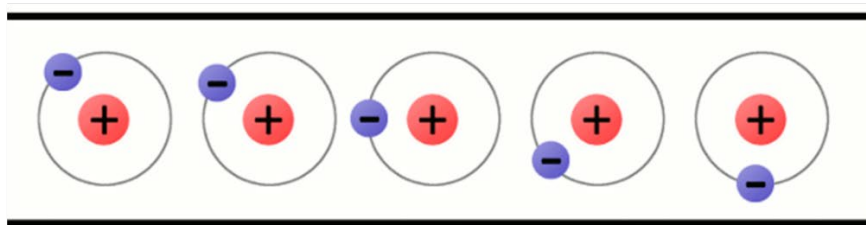
Non-metals are mostly on the right.

The zig-zag line separates metals and non metals

H hydrogen																	He helium				
Li lithium	Be beryllium															B boron	C carbon	N nitrogen	O oxygen	F fluorine	Ne neon
Na sodium	Mg magnesium															Al aluminium	Si silicon	P phosphorus	S sulfur	Cl chlorine	Ar argon
K potassium	Ca calcium	Sc scandium	Ti titanium	V vanadium	Cr chromium	Mn manganese	Fe iron	Co cobalt	Ni nickel	Cu copper	Zn zinc	Ga gallium	Ge germanium	As arsenic	Se selenium	Br bromine	Kr krypton				
Rb rubidium	Sr strontium	Y yttrium	Zr zirconium	Nb niobium	Mo molybdenum	Tc technetium	Ru ruthenium	Rh rhodium	Pd palladium	Ag silver	Cd cadmium	In indium	Sn tin	Sb antimony	Te tellurium	I iodine	Xe xenon				
Cs caesium	Ba barium	La lanthanum	Hf hafnium	Ta tantalum	W tungsten	Re rhenium	Os osmium	Ir iridium	Pt platinum	Au gold	Hg mercury	Tl thallium	Pb lead	Bi bismuth	Po polonium	At astatine	Rn radon				
Fr francium	Ra radium	Ac actinium	Rf rutherfordium	Db dubnium	Sg seaborgium	Bh bohrium	Hs hassium	Mt meitnerium	Ds darmstadtium	Rg roentgenium											

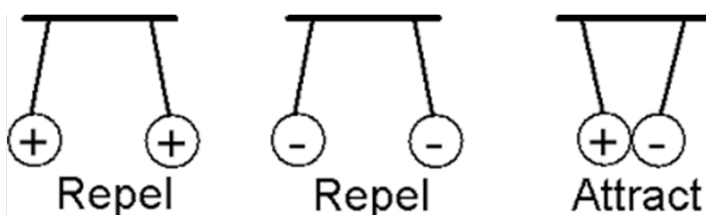
Electrical Conductors allow electrons to flow freely within the metal:

In metals, the electrons are free to move between the atoms!
We call them **delocalised** (not-local) electrons



Attract: to cause things to be pulled together.

Repel: to cause things to be pushed apart.

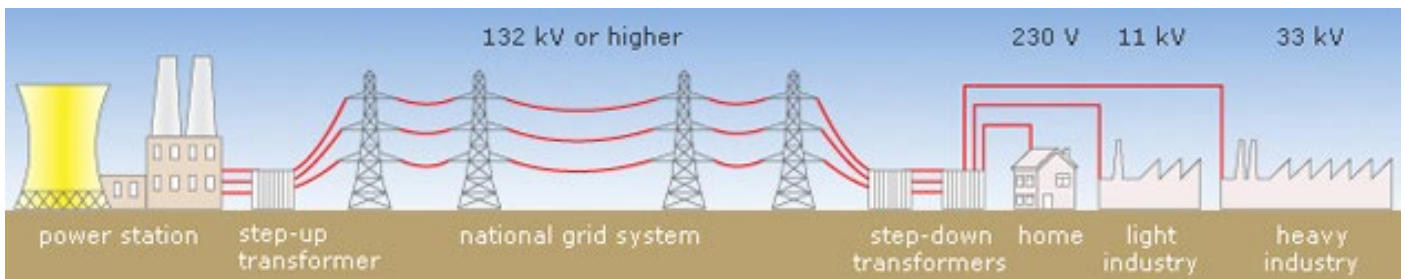


Static Electricity is caused by a build-up of negative charge on an insulator:

Balloon on hair



The **National Grid** transports electricity around the country from, either, power stations that use non-renewable fuels, or from renewable energy sources like wind farms or hydroelectric dams



The **Greenhouse Effect** is where greenhouse gases in the atmosphere, especially carbon dioxide CO_2 , trap heat, warming the Earth. The **carbon cycle** shows how carbon can be added or removed from the atmosphere.

