

Week 1: Term 5 Recap

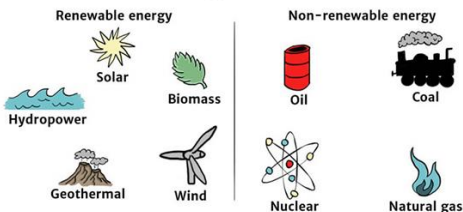
energy source a source from which useful energy can be extracted or converted

renewable an energy source that will not run out

non-renewable an energy source that is used faster than it is replenished and will run out

power the amount of energy transferred in a set amount of time

Renewable and Non-Renewable Energy Sources



joules (J) the units for all types of energy

kWh the unit used to state the amount of energy used by a 1kW appliance for 1 hour

compare to find similarities and differences between to objects

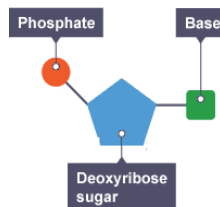
Week 2: DNA

DNA Deoxyribonucleic acid. The material inside the nucleus of cells in a double stranded helix structure.

chromosome The structure made of DNA that codes for all the characteristics of an organism

gene A section of DNA which codes for proteins

nucleotide The monomer of DNA made up of sugar, phosphate and one of four bases (A,T,C or G)



- There are 23 pairs of chromosomes in each human body cell (46 in total).
- The four DNA bases are A,T,C and G – A always pairs with T and C always pairs with G
- Bases are held together by hydrogen bonds.

Week 3: Variation

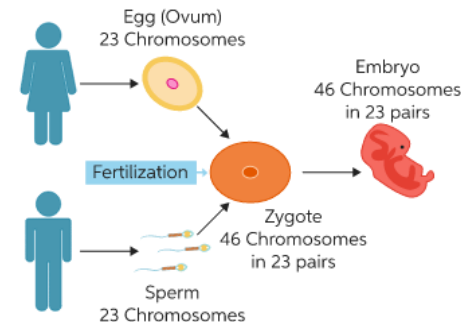
variation The differences between individuals of the same species

heredity The passing on of characteristics genetically from one generation to another

genetic variation Variation caused by genes e.g. Eye colour or ear lobe shape

environmental variation Variation caused by the environment (e.g. culture/ weather). Examples include skin colour, religion, tattoos

fertilisation When a female gamete (sex cell) and male gamete (sex cell) nuclei fuse to produce a zygote.



Extension QR Codes - Read the BBC bitesize new knowledge page, watch the video, and complete the self-quiz



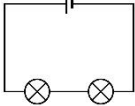
Week 4: Circuits

Week 5: Resistance

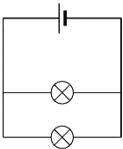
Week 6: Atomic Structure

circuit A complete loop which allows an electric current flow.

series circuit A circuit with **one loop** through which current flows.



parallel circuit A circuit with **more than one loop** which current can flow.



current The rate of flow of charge, measured in Amps (A)

ammeter A device, connected in series, which measures the current in a circuit.



potential difference A measure of the difference in energy between two parts of a circuit measured in volts (V).

voltmeter A device, connected parallel to a component, which measures potential difference.

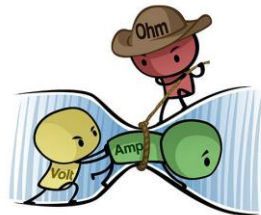


resistance How much the wires and components reduce the flow of charge

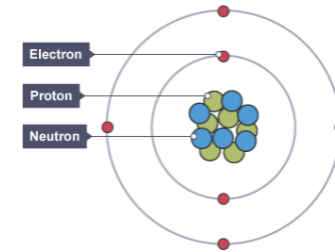
ohms (Ω) The unit of measure for resistance

variable A factor which could affect experimental results (can be independent, dependent or control),

resistance equation
Resistance = Potential difference (V) ÷ current(A)



Increasing the **resistance** (measured in ohms) will make it harder for **current** to flow.



atom The smallest piece of matter, made up of protons, electrons, and neutrons.

mass number The total number of protons and neutrons in the nucleus of an atom.

atomic number The number of protons only in the nucleus of an atom.

ion An atom that has lost or gained electrons.

Subatomic particle	Relative mass	Relative charge
proton	1	1+
neutron	1	0
electron	Negligible	1-

Extension QR Codes - Read the BBC bitesize new knowledge page, watch the video, and complete the self-quiz

