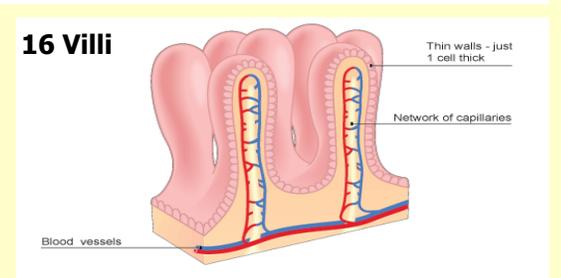
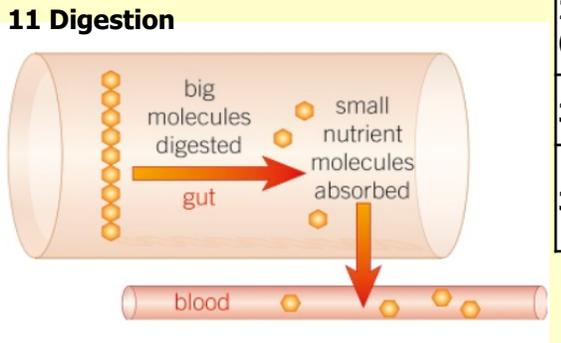
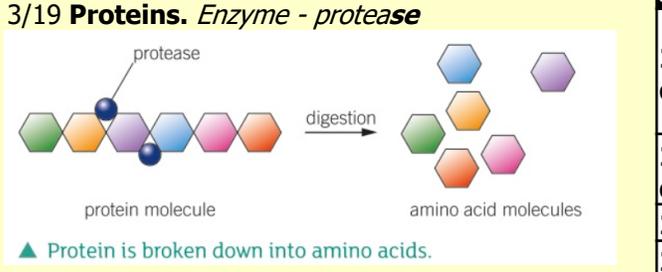
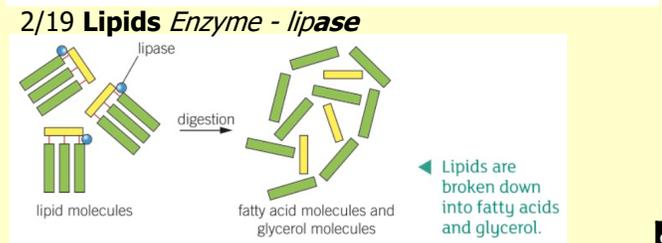
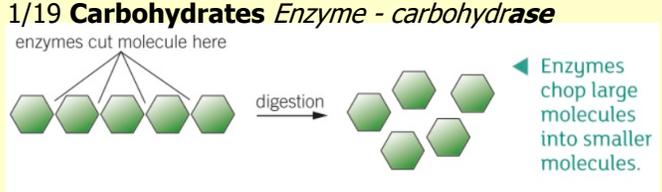


2.1 Health and Lifestyle

Section 1: Nutrients	
Nutrient	Function
1 Carbohydrates	Provides energy . Found in sugary foods and bread and pasta,
2 Lipids	Provides you with a store of energy and keeps you warm.
3 Proteins	Are used for growth and repair . Found in meat and dairy .
4 Vitamins and Minerals	Keeps you healthy (needed for normal function). Found in fruit and veg .
5 Water	Needed in all cells and body fluids.
6 Fibre	Not a nutrient but important for a healthy diet. Keeps food moving through gut. Found in carbohydrates .

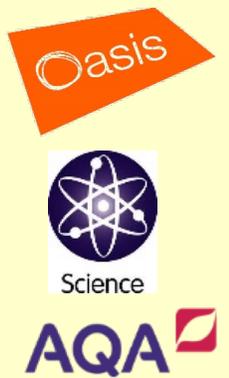
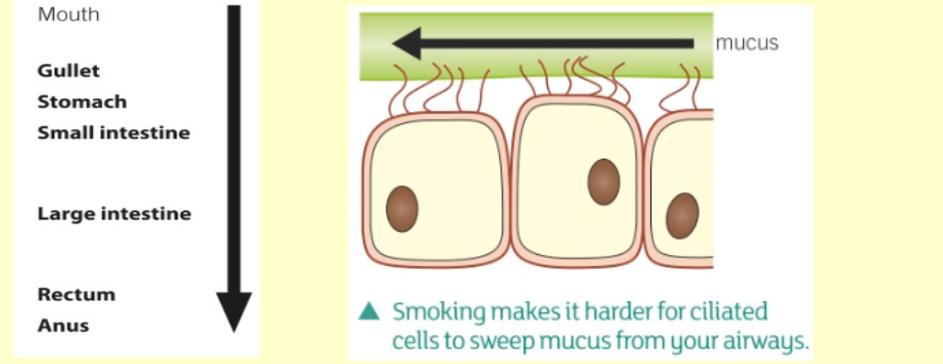
Section 2: Food Tests		
Nutrient	Chemical Used	Colour Change if Present
7 Starch	Iodine	Turns blue-black
8 Lipids	Ethanol	Solution turns cloudy
9 Sugar	Benedict's Solution	Turns brick-red
10 Protein	Copper Sulphate and Sodium Hydroxide	Turns purple

Section 4: Digestion	
11 Digestion	Large molecules being broken down into smaller molecules .
12 Mouth	Food is chewed and mixed with saliva
13 Gullet	Food passes down this tube.
14 Stomach	Food is mixed with digestive juices in and acids.
15 Small Intestine	Small food molecules absorbed into the bloodstream.
16 Villi	Small structures the line the intestine, increasing surface area and maximising absorption .
17. Large Intestine	Water absorbed leaving undigested food called faeces.
18. Rectum	Faeces stored here.
19. Anus	Where faeces leave the body.
20. Enzymes	Special proteins that break large molecules into smaller molecules for absorption. Found in the mouth, stomach and small intestine



Section 5 unhealthy diets	
21. Starvation	Energy eaten in food is less than the energy used
22. Obese	Extremely overweight - Energy eaten in food is more than the energy used; stored as fat under skin and around organs;
23. Deficiency	When a person does not have enough of a vitamin, mineral of food group.

Section 6: Drugs and alcohol	
24. Medicinal drugs	Used in medicine to benefit health , treat symptoms of a condition e.g. paracetamol used to relieve pain
25. Recreational drugs	Drug taken for enjoyment only – no benefit to health
26. Addiction	When you need to take a drug to feel normal
27. Stimulant	e.g. nicotine in cigarettes – speeds up bodies reactions
28. Depressant	e.g alcohol – slows down bodies reactions
29. Ethanol (Alcohol)	Absorbed into your blood stream; affects nervous system reducing reaction time and thinking ability; damages liver causing scarring (cirrhosis).
30. Liver	Organ responsible for removing toxic chemicals e.g alcohol
31. Smoking	linked to heart disease, Emphysema (lung disease), lung cancer, respiratory infections

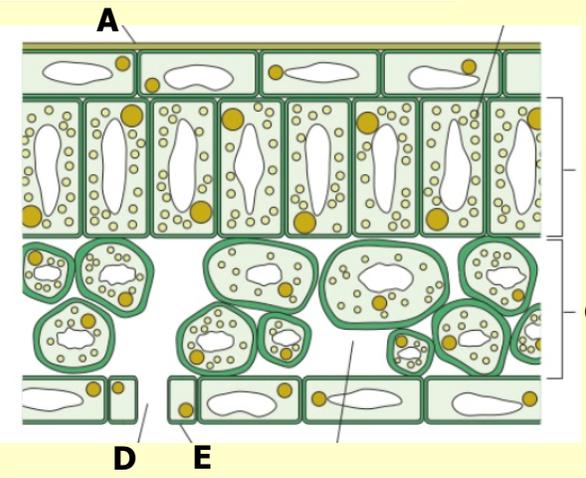




Section 1: Photosynthesis

Key word	Definition
1. Producer	An organism that makes its own food using photosynthesis
2. Consumer	An organism that eats other organisms as food
3. Photosynthesis	The process plants use to make their own food, glucose.
4. Chlorophyll	Green pigment that absorbs light for use in photosynthesis
5. Word equation for photosynthesis: $\text{carbon dioxide} + \text{water} \xrightarrow{\text{light}} \text{glucose} + \text{oxygen}$	

Section 2: Leaves



	Letter	Part of leaf	Function
6	A	Waxy layer	Reduces the amount of water evaporating
7	B	Palisade layer	Packed with chloroplasts to enable photosynthesis
8	C	Spongy layer	Contains air spaces to enable gases to diffuse throughout of the leaf
9	D	Stomata	Allows gases to diffuse into and out of the leaf
10	E	Guard cell	Open and close stomata

Section 3: Plant minerals

11	nitrates	Contain nitrogen for healthy growth
12	phosphates	Contains phosphorus for healthy roots
13	Potassium	Contains potassium for healthy leaves and flowers
14	magnesium	For making chlorophyll

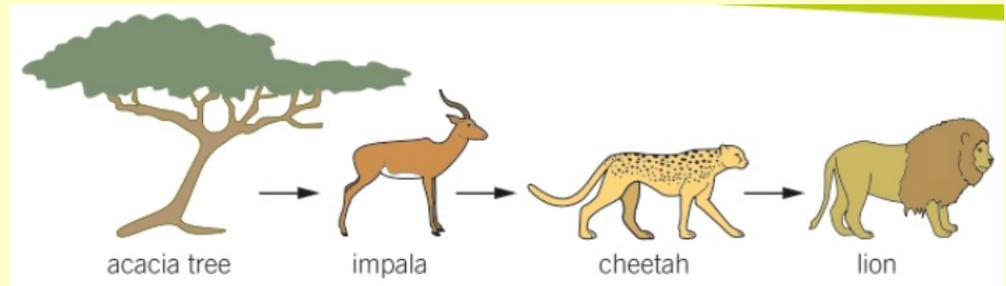
Section 4: Chemosynthesis

	Definition
15 Chemosynthesis	Chemosynthesis uses chemicals as a source of energy by bacteria

Section 5: Respiration

16 Aerobic respiration	Glucose + oxygen → carbon dioxide + water (+ energy)
17 Anaerobic respiration	Glucose → lactic acid (+ energy)
18 Fermentation	Glucose → ethanol + carbon dioxide (+ energy)

Section 6: Food chains and webs



Key word	Definition
19. Food chain	Diagram showing the transfer of energy between organisms
20. Food web	Diagram showing linked food chains
21. Predator	Animal that eats another animal
22. Prey	Animal that is eaten
23. Bioaccumulation	The build up of toxic chemicals inside organisms in a food chain

Section 7: Ecosystems

Key word	Definition
24. Ecosystem	Living organisms in a particular area, and the habitat they live in
25. Community	Plants and animals found in a particular habitat
26. Habitat	Place where a plant or an animal lives
27. Niche	Particular place or role that an organism has in an ecosystem

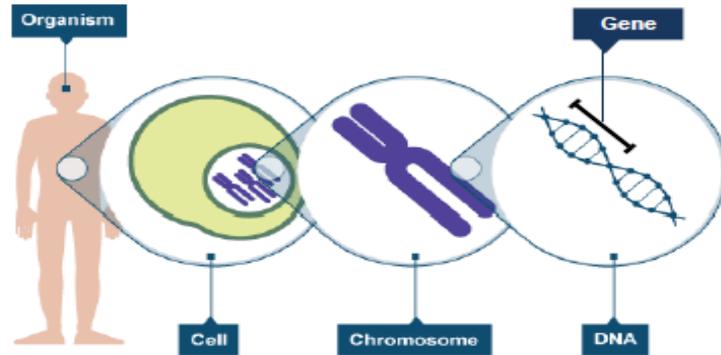
Biology B2.3 Adaptation and inheritance

Part 1

KPI 1: Identify variation between individuals of a species and state the differences between species, describing the difference between continuous and discontinuous variation.

DNA

- All the instructions to make organisms are kept in coded form on a very long molecule called DNA
- DNA is kept in the nucleus of every cell
- The molecule is so long it is twisted and folded into tiny structures called chromosomes so it can fit inside the nucleus
- It has a ladder like structure and is a double helix
- A short length of chromosome which codes for a characteristic is called a gene
- You have thousands of genes they are like recipes for proteins



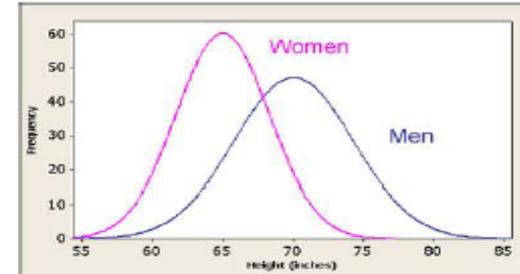
Variation

- The differences between living things of the same species is known as variation.
- Variation can be caused by differences in genes or differences in the environment.
- Some variation is caused by a mixture of both genes and environment.

Key Terms	Definition
DNA	Molecule that carries all the instructions needed for an organism
Gene	A short length of DNA that has the information for a characteristic
Chromosome	A structure containing DNA found inside the nucleus of a cell
Variation	Differences between living organisms of the same species
Continuous variation	Differences that can take any value, e.g. height
Discontinuous variation	Differences that can only take set values, e.g. blood groups

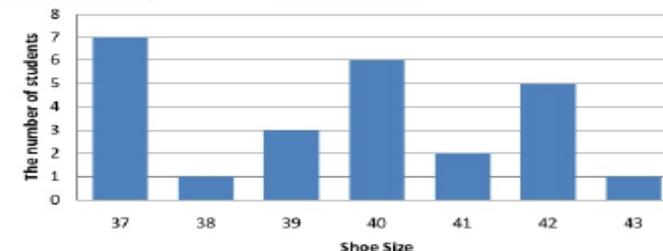
Measuring variation

- Continuous variation is variation that can take any value (e.g. height or weight)
- Continuous variation should always be shown on a line graph
- Discontinuous variation is variation that can only take set values (e.g. shoe size or blood group)
- Discontinuous variation should always be shown on a bar chart



Continuous variation
←

Discontinuous variation
→



Biology B2.3 Adaptation and inheritance

Part 2

Key Terms	Definition
Adaptation	Something which helps an organism to survive in their environment, e.g, humps for storing water
Habitat	The environment that an organism lives in

Adaptation

- Every animal has evolved gradually over millions of years to become well suited, or adapted, to its habitat.
- These adaptations are specific to the environment of the animal and are essential for survival.
- An animal must be able to find food, breed and navigate its way around its habitat if it is to survive.

Examples of adaptations

Animal	Habitat	Adaptations	
	Snow leopard	Cold mountains	<ul style="list-style-type: none"> - Big paws to evenly spread weight and help with walking through snow - Thick fur for insulation - Sharp teeth for killing and eating prey
	Siamang gibbon	Tropical rainforest	<ul style="list-style-type: none"> - Long arms and fingers for swinging through trees and gripping branches - Forward facing eyes for judging distances - Inflatable throat sac so their calls can travel long distances through the dense rainforest
	Bactrian camel	Desert	<ul style="list-style-type: none"> - Two humps to store fat which can be converted to water - Wide feet to even spread weight and prevent sinking into the sand - Long eyelashes to keep sand out of their eyes
	Humboldt penguin	Coastal; cold water	<ul style="list-style-type: none"> - Streamlined bodies to help with swimming - Serrated beaks to help with catching and swallowing slippery fish - Countershading (black backs and white bellies) to help avoid detection by prey and predators



Chemistry 2.1: The Periodic Table

Section 1: The Periodic Table

2	Metals	Found on the left side whereas non-metals are on the right .
3	Metalloids	Near the stepped line and share properties of both metals/non-metals.
4	Group	The vertical columns found on the Periodic Table . These elements share similar properties such as density
5.	Period	The horizontal rows found on the Periodic Table .

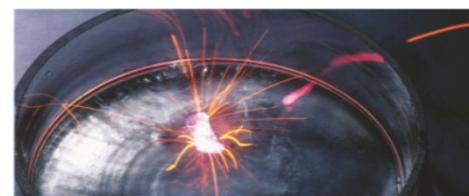
solids liquids gases at room temperature

Section 3: Elements of Group 1

13	The Alkali Metals	Lithium (Li), Sodium (Na), Potassium (K), Rubidium (Rb), Caesium (Cs) and Francium (Fr).
14	Reactive	The ability to take part in chemical reactions .
15	Reactivity of Group 1	As we move down group 1 , the elements become more reactive
16	These are the word equations for group 1 metals reacting with water:	Lithium + Water → Lithium hydroxide + hydrogen Sodium + Water → Sodium hydroxide + hydrogen Potassium + Water → Potassium hydroxide + hydrogen



▲ Lithium, at the top of Group 1, reacts vigorously with water.



▲ The reaction of potassium with water is very vigorous.



Science



Section 2: Metals and non-metals

	Properties of metals and non-metals	Metal	Non-metal
6	Good conductor of electricity	Y	
7	Good conductor of heat	Y	
8	Appearance?	Shiny	Dull
9	Density? (Mass of a material in a certain volume)	High	Low
10	Malleable (can be hammered into shapes)	Y	Breaks
11	Ductile? (can be pulled into a wire)	Y	Breaks
12	Sonorous? (makes a ringing sound when hit)	Y	

Section 4: Elements of Group 7

17	The Halogens	Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) and Astatine (At).
18	Reactivity of group 7	Fluorine most reactive: As we move down group 7 , the elements become less reactive.
19	Displacement Reaction	A more reactive element pushes out a less reactive element from its compound in a chemical reaction .
20	Group 7 displacement	Elements nearer the top of group 7 displace elements lower in the group: fluorine will displace chlorine; chlorine will displace bromine
21	Example of displacement	Chlorine + potassium bromide → potassium chloride + bromine

Section 5: Elements of Group 0

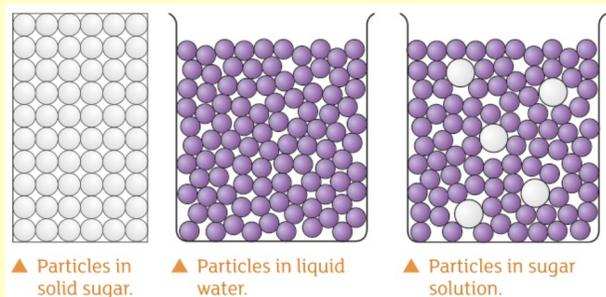
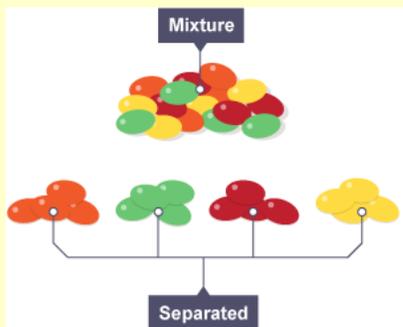
22	The Noble Gases	Helium (He), Neon (Ne), Argon (Ar), Krypton (Kr), Xenon (Xe) and Radon (Rn).
23	Reactivity of group 0	The elements in Group 0 are unreactive .
24	Melting and boiling points	The melting/boiling point for the Noble gases increase as you move down the group.

Section 1: Mixtures

Key Word	Definition
1. Mixture	A mixture is made up of substances that are not chemically joined together.
2. Pure Substances	A substance is pure if it has no other substances mixed in with it. It has a sharp melting point.
3. Impure Substances	A substance is impure if it has different substances mixed in with it. It does not have a sharp melting point.

Section 2: Solutions

Key Word	Definition
4. Solution	A mixture of a liquid with a solid or a gas. All parts of the mixture are the same.
5. Solvent	The liquid in which a solid or gas dissolves.
6. Solute	The solid or gas that dissolves in a liquid.
7. Dissolve	The mixing of a substance (the solute) with a liquid (the solvent) to make a solution.



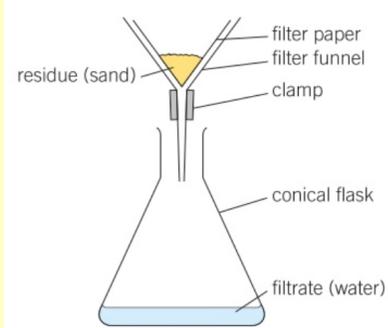
Section 3: Solubility

Key Word	Definition
8. Saturated Solution	A solution in which no more solute can dissolve.
9. Solubility	The solubility of a substance is the mass that dissolves in 100g of water.
10. Soluble	The greater the mass of a substance you can dissolve in 100g of water, the more soluble the substance.
11. Insoluble	Substances that cannot dissolve in water are insoluble.

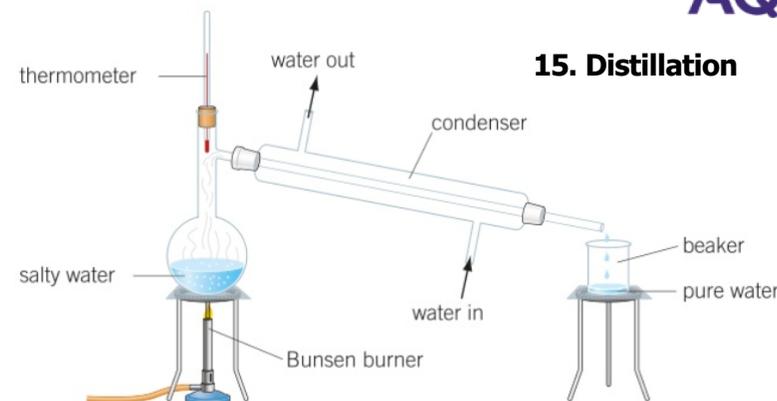
Section 4: Filtration

Key Word	Definition
12. Filtration	A way of separating pieces of solid that are mixed with a liquid or solution by filtration.
13. Filtrate	The liquid or solution that collects in the container after the mixture has passed through the filter paper.
14. Residue	The solid that collects in the filter paper.

12. Filtration



15. Distillation

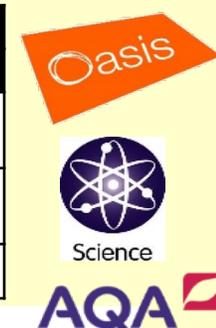


Section 5: Evaporation and Distillation

Key Word	Definition
15. Distillation	A technique that uses evaporation and condensation to obtain a solvent from a solution .
16. Evaporation	The change of state from liquid to a gas , when particles leave the surface of the liquid.
17. Condensation	The change of state from a gas to a liquid .
18. Process of distillation	<ul style="list-style-type: none"> • Water in the salt solution boils • Steam leaves the solution • Steam travels through the condenser and cools down • The steam condenses to form liquid water • Liquid water drips into the beaker

Section 6: Chromatography

Key Word	Definition
19. Chromatography	A technique to separate mixtures of liquids that are soluble in the same solvent.
20. Chromatogram	An image obtained from chromatography .



Section 1: Acids and metals

1	Observations with metal and acid reactions	Magnesium: Bubbles vigorously Zinc/ iron: Bubbles steadily Lead: Few bubbles
2	Products	A salt and hydrogen
3	Test for hydrogen	Put a lit splint in the gas and there will be a squeaky pop

Section 2: Metals and oxygen

State symbols		
4	(s)	Solid
5	(l)	Liquid
6	(g)	Gas
7	(aq)	Solution

Reactions with oxygen		
8	magnesium	Burns vigorously
9	Zinc	Burns less vigorously
10	Iron	Burns
11	lead	Does not burn
12	Copper	
13	Gold	No reaction

Section 3: Metals and water

14	Reactivity series	A list of metals in order of how vigorously they react
15	Metals at the top of the reactivity series have very vigorous reactions. Going down the list, the metals get less reactive	

Section 4: Metal displacement reactions

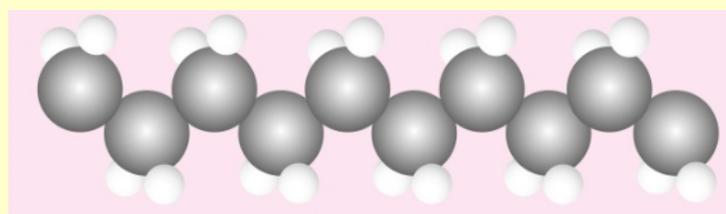
16	Displace	A more reactive metal displaces – or pushes out – a less reactive metal from its compound
17	Displacement	In a displacement reaction, a more reactive metal displaces a less reactive metal from its compound
18	Thermite reaction	Aluminium + iron oxide → aluminium oxide + iron

- reactive
- potassium
- sodium
- lithium
- calcium
- magnesium
- aluminium
- zinc
- iron
- lead
- copper
- silver
- gold
- unreactive

Section 5: Extracting metals

19	Ore	A rock that you can extract a metal from
20	How metals are extracted from their ore	1. Separate the metal oxide from its ore 2. Use chemical reactions to extract the metal from its metal oxide
21	Chemical reactions	The chemical reactions involve heating the metal oxide with charcoal (carbon). Any metal that is below carbon in the reactivity series can be displaced from its compounds by carbon

- magnesium
- aluminium
- carbon
- zinc
- iron
- lead
- copper

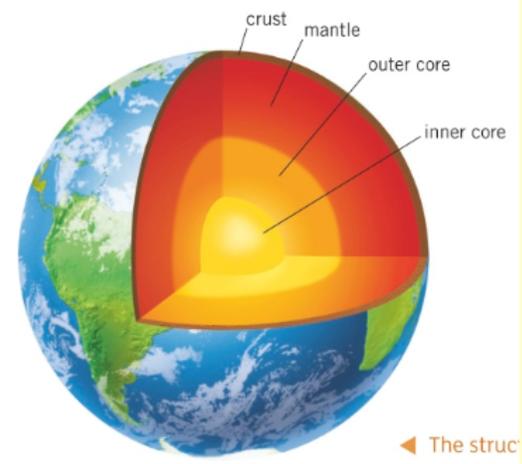


Section 6: Materials

	Material	Description	Properties	Uses
22	Ceramics	A compound such a metal silicate or oxide that is hard, strong and has a high melting point	<ul style="list-style-type: none"> • Hard • Brittle • Stiff • Solid at room temperature • Strong • Break easily • Electrical insulators 	<ul style="list-style-type: none"> • Bricks – are strong which makes them suitable for buildings • Electrical power-line insulators – ceramics do not conduct electricity
23	Polymers	A substance made up of very long molecules	<ul style="list-style-type: none"> • Does not conduct electricity • Poor conductors of heat 	<ul style="list-style-type: none"> • Carrier bags (low-density polyethene) • Artificial joints (high-density polyethene)
24	Composites	A mixture of materials with properties that are a combination of those of the materials in it	Has properties that are a combination of the properties of the materials it is made up of	<ul style="list-style-type: none"> • Carbon-fibre-reinforced plastic • Glass-fibre-reinforced aluminium

Chemistry C2.4: The Earth

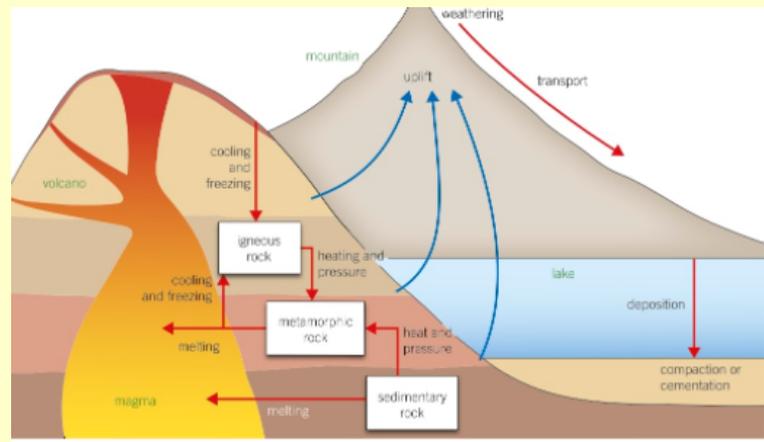
Section 1 The Earth	
1 Layers	Inner core (solid) – Outer core (liquid) – Mantle (semisolid) – Crust (solid)
2 Crust	Mostly oxygen, silicon, aluminium and iron
3 Atmosphere	The gases surrounding the Earth
4 Troposphere	The layer of the atmosphere closest to the Earth. Mostly made of nitrogen and oxygen



Section 2 Rock types	
6 Sedimentary rocks	Made of broken down rocks (sediment) which has been compacted and cemented together. Porous, permeable, contain fossils
7 Metamorphic rocks	Made when other rocks are heated and pressured. Very hard and strong, have distorted fossils.
8 Igneous rocks	Made when magma or lava cools down. Crystalline, hard, no fossils.
9 Rock cycle	The cycle that changes rocks from one type to another

Section 5 Climate change	
24 Greenhouse effect	Gases in the atmosphere such as carbon dioxide trap energy from the sun, leading to global warming.
25 Increased greenhouse gases	Combustion of fuels and deforestation leading to excess carbon dioxide in the atmosphere.

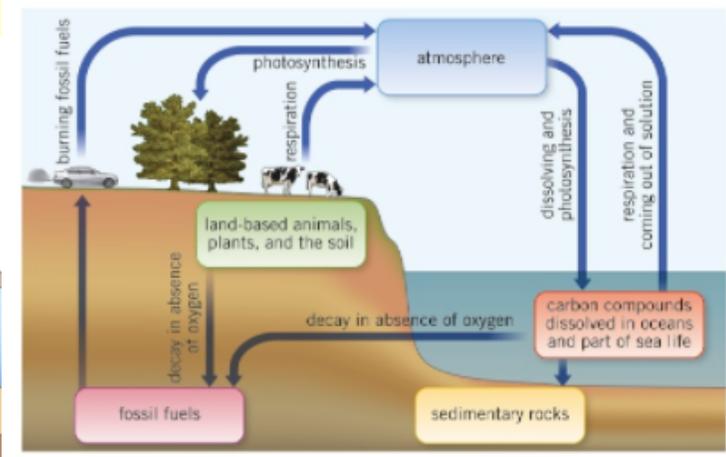
Section 3 Weathering and erosion processes	
10 Chemical weathering	Acid in rain reacts with rocks.
11 Biological weathering	Plants and animals break down rocks
12 Physical weathering	Temperature changes break down rocks
13 Erosion	Rocks hitting each other and breaking
14 Transportation	Rocks being moved usually by water or wind
15 Deposition	Rocks being dropped and settling
16 Compaction	Sediment being squashed together
17 Cementation	Minerals gluing the sediment together into one rock



▲ The rock cycle.

Section 4 Carbon cycle	
19 Respiration	Transfers energy from food and plants. Gives out carbon dioxide into the atmosphere.
20 Combustion	Transfers energy from fuel. Gives out carbon dioxide into the atmosphere
21 Photosynthesis	Transfers energy from carbon dioxide and water. Removes carbon dioxide from the atmosphere
22 Dissolving	Takes carbon dioxide into the oceans. Removes it from the atmosphere
23 Carbon stores	Places where carbon is held. Plants, animals, rocks, oceans, atmosphere.

Section 6 Recycling	
26 Recycling	Collecting and processing materials which have been used so the materials can be used again
27 Advantages	Resources will last longer, uses less energy than making new resources, reduces waste and pollution
28 Disadvantages	Effort of sorting recycling materials, the lorries emit pollution, cannot recycle everything.



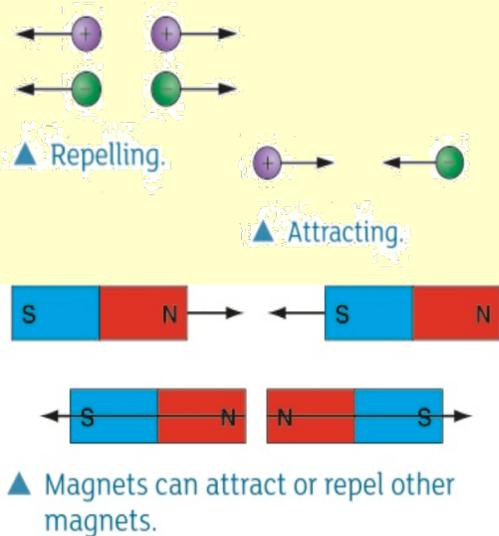
▲ The carbon cycle.



Physics 2.1: Electricity and Magnetism

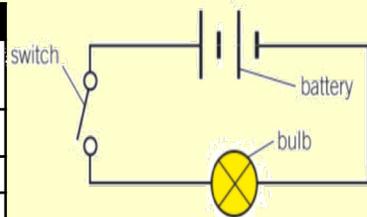
Section 1: Charging Up

1	Charges	There are positive and negative charges
2		Two of the same charge repel , opposite charges attract
3	Atoms	The smallest particle that everything is made up of
4	Electrons	Negatively charged
5	Protons	Positively charged
6	Neutrons	Neutrally charged



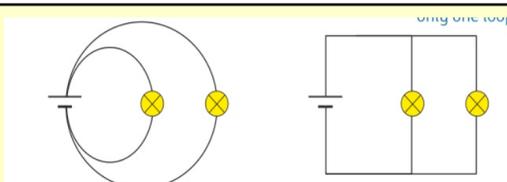
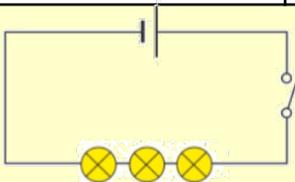
Section 2: Circuits and Current

7	Current	The flow of electrical charge around a circuit per seconds
8	Amps	Units of measure for an electrical current (A)
9	Ammeter	Measures an electrical current
10	Cell	Provides the push that moves charge around a circuit



Section 3: Potential Difference

11	Potential Difference	The measure of the push that a cell/battery can supply
12	Volts	The measurement of potential difference
13	Voltmeter	Measures the potential difference.



Section 4: Series and Parallel

14	Series circuits	Series circuits are joined in one big loop
15	Parallel circuits	Parallel circuits have two or more paths for the current to travel

Section 5: Resistance

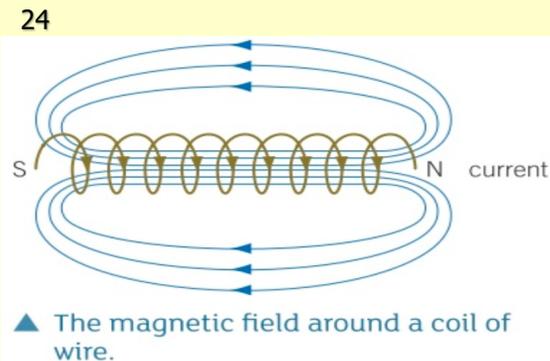
16	Resistance	How difficult it is for current to flow through a component in a circuit
17	Ohms	The unit of measurement for resistance
18	Resistance can be measured using this equation	$\text{resistance } (\Omega) = \frac{\text{potential difference (V)}}{\text{current (A)}}$
19	Conductors	Materials that have a very low resistance, such as metal
20	Insulators	Materials that have a very high resistance such as plastic

Section 6: Magnets and Magnetic Fields

21	Magnetic Field	A region where there is a force that acts on a magnet
22	Magnetic Material	A material that is attracted to magnets such as iron or steel
23	Magnetic Field Lines	Imaginary lines that show the direction of force on magnetic materials

Section 7: Electromagnets

24	Electromagnet	A temporary magnet produced using an electric A wire with an electric current flowing through it has a magnetic field around it
25	Magnetise	To make a material into a magnet
26	Core	A rod of magnetic material placed inside a coil to make the magnetic field of an electromagnet stronger



Section 8: Using Electromagnets

27	Uses of Electromagnets	Can be used to lift iron cars in a scrap yard and in MRI scanners found in hospitals
28	Relay	Electrical device that uses current flowing through it in one circuit to switch on and off a current in a second circuit
29	Motor	A component or machine that spins when a current flows through it



Physics P2.2 Energy

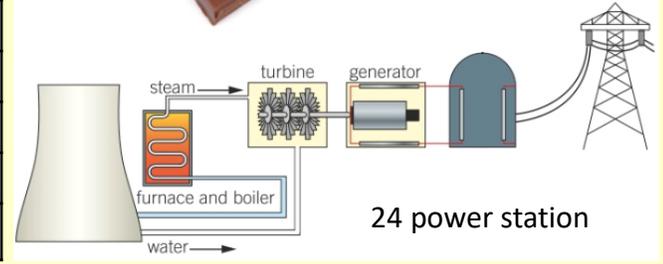
Section 1 Energy basics	
1 Energy	Measured in joules (J). Often written in kilojoules (kJ)
2 Food	Energy store which we need to take in to our bodies. We need different amounts of energy to do different activities.
3 Fuel	Energy store which we need to heat houses or make transport work.



3 Fuels



Section 2 Energy stores	
Energy to do with...	Type of store
4 Food, fuels, batteries	Chemical
5 Hot objects	Thermal
6 Moving objects	Kinetic
7 Position in a gravitational field	Gravitational potential
8 Changing shape, stretching or squashing	Elastic

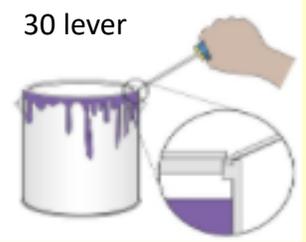


24 power station

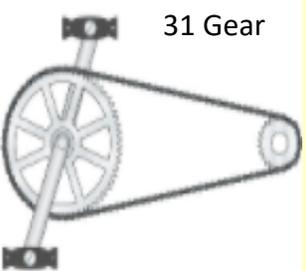
Section 5 Thermal energy transfer	
17 Conduction	Happens in solids. Particles gain energy and vibrate faster. They collide with adjoining particles and pass on the energy. Happens well in metals because they have free electrons.
18 Convection	Happens in fluids. Particles gain energy and move apart. They become less dense and rise. This sets up a convection current.
19 Radiation	Very hot objects give out infrared radiation. This travels as waves. It can travel through a vacuum. The radiation can be reflected, absorbed or transmitted.

Section 3 Transferring energy	
9 Law of conservation of energy	Energy cannot be created or destroyed, it can only be stored or transferred.
10 Method of transferring energy	Electric current, light & sound
11 Wasted energy	Energy which is transferred into a store you do not want
12 Thermal store of the surroundings	Common wasted energy transfer, energy described as dissipated

Section 4 Energy and temperature	
13 Temperature	Measured in degrees Celsius (or Kelvin). Measure of the energy store in an object.
14 Energy in particles	All particles have energy, and are moving. As you heat them, they move faster.
15 Increasing temperature	Increasing the temperature of an object depends on its mass, what it is made of and the temperature rise you want
16 Energy transfer	Energy is transferred from hot objects to cooler objects until there is no temperature difference and they are in equilibrium.



30 lever



31 Gear

Section 6 Generating energy	
20 Fossil fuels	Non-renewable fuels coal, gas and oil. Made from the remains of sea creatures and plants.
21 Fossil fuel power station	Fuels are burned and the energy is used to boil water. The steam produced turns a turbine attached to a generator.
22 Renewable energy	Energy sources which will not run out, such as wind, solar, tidal, geothermal, wave, biomass and hydrothermal.

Section 7 Power	
23 Power	The amount of energy transferred by a device per second. Measured in Watts.
24 Kilowatt hours	Energy used – the power of a device and how long you have used it for. This is what you are charged for on your power bill.

Section 8 Work, energy and machines	
25 Work	The energy required to exert a force over a distance.
26 Lever	A simple machine which multiplies the force you are exerting by making the distance larger.
27 Gear	A simple machine which multiplies the force being exerted using different sized cogs.



Physics P2.3 Motion and Pressure

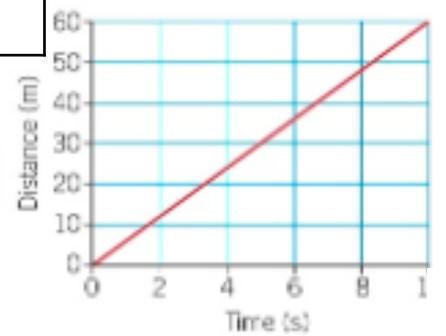
Section 1 Speed	
1 Speed	How far something travels in a particular time. Measured in metres per second.
2 Calculating speed	Speed (m/s) = distance travelled (m) / time taken (s)
3 Instantaneous speed	The speed at any given time. Speed on the speedometer in a car
4 Average speed	The total distance covered divided by the time taken to cover the entire distance.
5 Relative motion	How fast an object moves compared to another object.

Section 2 Motion graphs	
6 Distance – time graph	A graphical way of showing how something moves.
7 Gradient	The gradient on a distance time graph shows you the speed it was travelling. Horizontal = stationary, steeper = faster.
8 Acceleration	Shown on a distance – time graph as a curved line
9 Finding speed	Can be calculated from a distance – time graph by finding the gradient of the line.

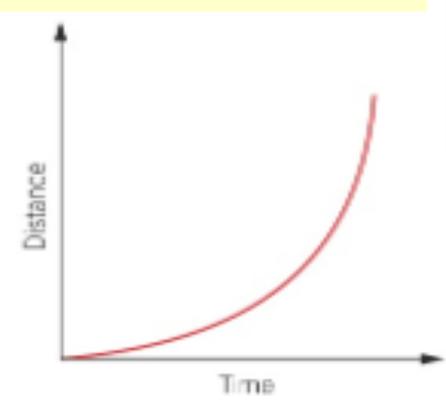
Section 3 Pressure in gases	
10 Gas pressure	Gas particles are constantly moving. When they hit the walls of their container they exert a force. This force over the surface area of the container exerts a pressure.
11 Changing volume	If you decrease the volume, you increase the pressure
12 Changing temperature	If you increase the temperature, the particles have more energy and move faster. The pressure will increase
13 Atmospheric pressure	The pressure exerted by the air on your body at all times.
14 Changing atmospheric pressure	Where there is greater air density, there is greater air pressure. High up mountains, there is less air pressure.



▲ A distance–time graph for a stationary object.



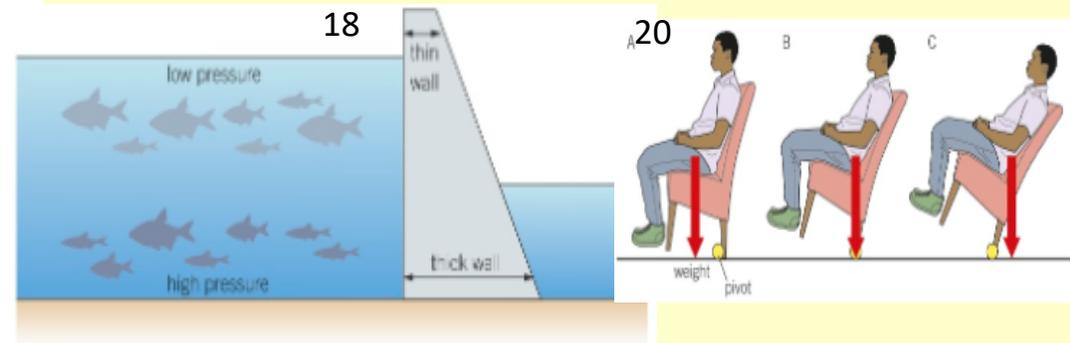
▲ A distance–time graph for a constant speed.



▲ A distance–time graph for an accelerating object.

Section 4 Pressure in liquids	
15 Water pressure	The pressure caused by water particles colliding with an object
16 Increasing water pressure	The further underwater, the greater the water pressure
17 Floating and sinking	Water pressure causes upthrust, pushing up on objects. If upthrust is bigger than the gravitational force, the object will float.

Section 5 Pressure on solids	
18 Pressure	The force on an object over an area. Measured in newtons per metre squared.
19 Increasing pressure	Increase the force or decrease the area it acts over



Section 6 Turning forces	
20 Turning force	A force which causes an object to rotate around a pivot. Also known as a moment. Measured in newton metres.
21 Law of moments	For a balanced object, the sum of the clockwise moments is equal to the sum of the anticlockwise moments.
22 Centre of gravity	The place the weight of an object acts through. If this is over the pivot, the object will not fall. If it is outside the pivot, the object will fall.

