



**Science in Key Stage 3**

Term	Topic	Objectives	Text book page (A1 is Activate 1 book and A2 is Activate 2 book)	High Performing students will:
<b>Year 7</b>				
1	Biology- Cells	Identify, label, and observe using a microscope some plant and animal cells	A1 - 168	make a poster showing the differences between animal and plant cells
		Describe the function of specialised cells in plant and animal organs	A1 - 172	Research STEM cells and how different cells in our body are specialised
		Plan an investigation into the movement of substances by diffusion of tea	A1 - 174	Investigate the diffusion of ink in water of different temperatures
		Explain how unicellular organisms are adapted to carry out their function	A1 - 177	Make a poster on an amoeba and how it uses pseudopodia to move
	Chemistry- Particles	Safely use and draw diagrams of lab equipment used in chemistry	NA	Explore the The Royal Institution <a href="https://www.rigb.org/">https://www.rigb.org/</a>
		Describe solids, liquids and gases in terms of their particle arrangements	A1 - 78	What are Newtonian and non-Newtonian fluids?
		Investigate changes of state and produce cooling and heating curves for a substance.	A1 - 80-85	Research some other states of matter ,eg plasma and Bose-Einstein condensates
		Use the particle model to describe pressure	A1 - 90	Investigate the changes in size of a balloon in a freezer and heated with a hairdryer
	Physics- Energy	State the main energy stores	A1 - 48	Make a poster on the life of James Joule
		Use the conservation of energy to describe the efficiency of energy transfers	A1 - 48	Investigate the energy rating on some of your household appliances.
Use the equations for Gravitational Potential and Kinetic energy.		NA	Practice calculations using the KE and GPE formulae	
Explore how GPE and KE are used in Theme parks		NA	Go to Thorpe park and book onto an educational talk about rollercoasters	
2	Biology- Movement	State examples of tissues, organs and organ systems	A1 - 160	Make a top trumps game on your tissues, organs, and organ systems, eg why would the Brain trump the eye
		label and describe the functions of the skeleton	A1 - 162	Make a leaflet that compares exoskeletons and endoskeletons
		Explain how our muscles and joints support movement	A1 - 164-167	Research the development of prosthetics and how AI advancements will influence prosthetics of the future
		Produce a risk assessment and Investigate the composition of bones	NA	Make a 3D model of one of the organ systems in humans
	Chemistry- Separating mixtures	State the difference between a pure substance and a mixtures	A1 - 94	Check out the labels on different mineral water bottles, use this information to state whether mineral water is pure or not
		Describe dissolving in terms of solute,solvent and solutions	A1 -96-99	Investigate the number of teaspoons of sugar you can dissolve in hot and cold water. What conclusion can you make
		Describe why we have to use different separating techniques	A1 -100-105	Design a homemade filter that uses more than one separating technique to make clean drinking water.
		Investigate ink as a mixture of colours	A1 - 104	Test 3 different food dyes on some filter paper to identify the individual dyes that make up the colour.
	Physics- The Universe	Describe the objects in the night sky	A1-148	Map the night sky using a telescope, use the frre app
		Describe the model of the solar system with relative distances to each other.	A1 - 150	Explore some of the different models for the early solar system. Find examples from different cultures.
Explain the seasons and movement of the Earth and moon.		A1 - 152	Explain why a scale model of the solar system is difficult to make.	
Explore current space exploration technologies		NA	Make a model of the Cassini satellite	
3	Biology- Reproduction	Describe the physical changes that happen during puberty	A1 - 206	Describe the life cycle of another mammal and compare similarities and differences to humans.
		Label and describe the functions of the reproductive organs in plants and mammals	A1 - 208, 190	Make a quizlet set (www.quizlet.com) on the key words and definitions for this topic
		Describe the development of a foetus from fertilisation to birth	A1 - 210 - 213	Make a bar chart showing the pregnancy lengths for different mammals
		Describe the stages of menstrual cycle	A1 - 214	Research the size difference of the egg cell compared to other specialised cells.
	Chemistry- Atoms	Calculate the number of protons, neutrons and electrons in different atoms	NA	Calculate the number of protons, neutrons and electrons for every element in group 1 (including hydrogen)
		Draw the electronic structure of the first 20 elements	NA	Research the science of alchemy
		Explain the difference between an element, compound and mixture	A2 - 68 - 75	Research why pure gold is more expensive than 9 carat gold
		Balance simple chemical equations	NA	Take the BBC Bitesize test on balancing equations <a href="https://www.bbc.com/bitesize/guides/zs3297h/test">https://www.bbc.com/bitesize/guides/zs3297h/test</a>

	Physics- Forces	State examples of force pairs.	A1 - 14	Make a simple Newton meter using elastic, calibrate it with some household items.
		Describe the effects of balanced and unbalanced forces on objects	A1 - 16	Research how the astronaut Tim Peake would weigh himself on the ISS
		Investigate friction, drag and tension on objects in the lab	A2- 20-23	Design a new uniform for one of the following, speed skater, Sky cycling team, triathlon athlete.
		Calculate the turning force on different objects.	A2 -24	Explain how simple gears and cogs work on a racing bicycle
4	Biology- The nervous system	Describe the control systems in the body	NA	make a poster on the main glands in the human body
		Explain how the nervous system responds to stimulus	NA	Would an android (robot) need a nervous system, discuss
		Investigate factors that affect your reaction time	NA	List olympic sports in order of which sportsperson needs the quickest reaction times to succeed
		List the main parts of the brain and how hormones control internal body functions	NA	Make a 3D model of the human brain.
	Chemistry- Acids and Alkalis	Make and explore the effects of indicators on acidic and alkaline solutions	A1 - 112	Why are indicators in chemistry important?
		Use data and observations to determine the pH of a solution	A1 - 114	What is the pH of human skin? Compare this to soap and shampoo? Is there a difference?
		Explore neutralisation reactions	A1 - 116 -119	Create a poster showing acids and alkalis that we find in the home and their uses.
	Physics- Motion	Describe how to name and make crystals of a salt	A1 - 120	Dissolve table salt in water and leave to evaporate in different locations around your house. Does this affect the size of the crystals formed?
		State and use the equation for speed	A1 - 18	Practice using the formula for speed, distance and time
		Investigate and draw graphs of distance and time	A1 - 20	Explore <i>the bloodhound</i> and land speed records
Explore the physics behind modern car safety features.		NA	Explain why crash test dummies are expensive	
5	Biology- Ecology	Design and test a crumple zone for a modle car	NA	Write an argument for or against the use of Autonomous cars
		State what food chains and food webs are	A1 - 182	Draw a pyramid of numbers and pyramid of biomass for a simple food chain
		State what is meant by ecosystem, community, habitat,environment, and population	A1 - 186-189	Make a mind map for the key terms and include the definitions and examples.
	Chemistry- Metals and non-metals	Describe the interaction between predator and prey populations	A1 - 188	Read about how to become an ecologist <a href="https://www.prospects.ac.uk/job-profiles/ecologist">https://www.prospects.ac.uk/job-profiles/ecologist</a>
		Describe how to measure the distribution of living organisms in their natural environment	NA	Research different sampling techniques. What techniques would be suitable in extreme environmental conditions.
		Use word and symbol equations to show the products and reactants in chemical reactions	A2 - 72	Find out why chlorine, oxygen and hydrogen travel in pairs
		Write balance symbol equations for chemical reactions	A2 - 74	Practice balancing equations using BBC Bitesize
	Physics- Electricity	Investigate reactions between metals and non-metals	A2 - 124	How do oilrigs prevent the legs of the rig corroding
		Describe reactions between metals and acids, oxygen, and water	A2 - 126 - 131	Once a metal has reacted how does industry reverse the reaction and mine the pure metal again
		Describe how to stay safe around electricity and use the terms Potential difference, current, charge and resistance correctly	A1- 28 - 37	How do engineers maintain the pylons and cables for the national grid safely?
Investigate potential difference using models and make fruit batteries		A1 - 28	How much fruit would you need to have a potential of 230 volts? What metals would you use?	
6	Biology- Photosynthesis	Use a formula to calculate resistance in circuits	A1 - 30	Make a poster on the life of Georg Ohm.
		Sketch, make, and test series and parallel circuits	A1 -32	Draw a circuit diagram for the lighting and plug socket for your houes
		Use the word equation to describe photosynthesis	A2 - 152	Compare photosynthesis and respiration
		Describe how the leaf is adapted and examine stomata under a microscope	A2 - 154	make a poster showing the different tissues in a plant leaf
	Chemistry- Forensics	Collect Oxygen from pondweed and investigate the factors that effect the rate	A2 - 156	Research how a biosphere works
		List the minerals a plant needs for healthy growth.	A2 - 158	Go into your garden and diagnose unhealthy plants with the minerals they are lacking
		Analyse a crime scene and decide on techniques to use for evidence	NA	Read about how to become a forensic scientist <a href="https://www.prospects.ac.uk/job-profiles/forensic-scientist">https://www.prospects.ac.uk/job-profiles/forensic-scientist</a>
		Analyse soil samples and carry out flame tests	NA	Research other reasons why soil is sampled by scientists
<b>Year 8</b>				
1	Physics- Light	Analyse inks, finger prints, DNA and dental records	NA	Do you think that everybody should have to give a sample of DNA to help solve future crimes?
		Describe how bodies are used to determine time of death	NA	Research the carbon cycle
		Describe how light is reflected from a mirror	A1 - 66	What uses are there for concave and convex mirrors?
		Describe what happens when a light ray meets a different medium	A1 - 68	Explain what refraction has to do with spear fishing
	Chemistry- Ions	Name parts of the eye and describe the function of each part	A1 - 70	Make a 3D model of the human eye
		Describe how we see coloured objects	A1 - 72	Research different animals and insects and find out what colour spectrum they can see
		State what an ion is and recall that ions can have different charges	NA	Why does iron form different ions (Fe <sup>2+</sup> and Fe <sup>3+</sup> )?
		Explain how compounds can be ionically bonded e.g. sodium chloride	NA	What is table salt made from?
		List some properties of ionic compounds.	NA	Make a model of sodium chloride.

		Derive the formulae for ionic compounds	NA	What does the term electronic configuration mean?
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		Explain how our muscles and joints support movement	A1 - 164-167	Research the development of prosthetics and how AI advancements will influence prosthetics of the future
		Produce a risk assessment and Investigate the composition of bones	NA	Make a 3D model of one of the organ systems in humans
2	Physics- The Universe	Describe the objects in the night sky	A1-148	Map the night sky using a telescope, use the frre app
		Describe the model of the solar system with relative distances to each other.	A1 - 150	Explore some of the different models for the early solar system. Find examples from different cultures.
		Explain the seasons and movement of the Earth and moon.	A1 - 152	Explain why a scale model of the solar system is difficult to make.
	Chemistry- Periodic Table	Explore current space exploration technologies	NA	Make a model of the Cassini satellite
		Draw the electronic structure of the first 20 elements in the periodic table	NA	Learn the periodic table song...! If Harry Potter can do it, you can too!
		State the properties and reactivity of the Group 1 elements	A2 - 80	How much potassium is in a banana
		State the properties and reactivity of the Group 7 elements	A2 - 82	Explain how chlorine gas was used as a weapon in WW2
		State the properties and reactivity of the Group 0 elements	A2 - 84	What gases are used in street lamps?
	Biology- Reproduction	Describe the physical changes that happen during puberty	A1 - 206	Describe the life cycle of another mammal and compare similarities and differences to humans.
		Label and describe the functions of the reproductive organs in plants and mammals	A1 - 208, 190	Make a quizlet set (www.quizlet.com) on the key words and definitions for this topic
		Describe the development of a foetus from fertilisation to birth	A1 - 210 - 213	Make a bar chart showing the pregnancy lengths for different mammals
		Describe the stages of menstrual cycle	A1 - 214	Research the size difference of the egg cell compared to other specialised cells.
3	Biology- Genetics	Define variation and identify genetic and environmental causes	A1 - 200 - 202	How does a mutation occur?
		Describe the relationship between DNA, genes and chromosomes	A2 - 172	What is the Human Genome project
		Use a Punnett square to show how genes are inherited	A2 - 176	Look at the eye colour of some of your relatives and using probabilities and punnett squares, work out what alleles they may have
		Explain how humans have manipulated the DNA of plants and animals	A2 - 178	Try taking cuttings to see if you can clone a plant
	Chemistry- Earth and its resources	Describe the structure of the Earth	A1 - 138	Make a timeline on the history of the earth's creation
		Use the carbon cycle to show how carbon is recycled	A2 - 110	Make a puppet show of the carbon cycle
		Describe and explain what is meant by global warming	A2 - 108 A2 - 112	Is global warming man's fault or would it happen naturally?
	Physics- Sound	Explain why recycling materials is important and the impact of plastic on the environment	A2 - 116	Make a diary of everything you recycle for a month?
		Describe how the speed of sound differs in different mediums	A1 - 56	Why do dogs and elephants hear different frequencies?
		Describe sound in terms of amplitude and loudness, frequency and pitch	A1 - 58 - 60	What makes some earphones really expensive?
Name some parts of the ear and describe how the ear works		A1 - 62	Make a model of the ear.	
4	Biology- Evolution	Label a diagram of a wave from an oscilloscope	A1 - 58	How do noise cancelling headphones work?
		Describe the theory of natural selection	A2 - 164 - 166	Visit Charles Darwin's house in Downe, Kent
		Explain how a species can become extinct and how it can be prevented	A2 - 168	Write a balanced argument about why we should or should not let Panda's go extinct
		Describe how fossils form and how they provide evidence for evolution	NA	Research the best places in East Sussex to find fossils. Research about the fossils you find.
	Chemistry- Energy changes	Describe how preserving biodiversity benefits humans	A2 - 170	Make a poster about why insects are so important for the planet and give some ideas about how to help insects in your gardens
		Describe exothermic and endothermic changes	A2 - 98	"Explosions and making drugs are all chemical reactions. Chemistry should be banned." Write arguments for and against this statement.
		Use energy level diagrams to identify exothermic and endothermic changes	A2 - 100	Why are some handwarmers reusable and others are only single use?
		State what happens to chemical bonds during exo and endothermic reactions	A2 - 102	Make a poster on how catalytic converters work in cars.
	Physics- Electricity	Use bond energies to determine whether a reaction is exo or endothermic	A2 - 102	Practice bond energy calculations using BBC Bitesize
		Use the terms electrical conductor and electrical insulator correctly	A1 - 31	What are superconductors?
		Describe and measure charge, current and potential difference	A1 - 28 A1 - 34	Find out how fast electrons move along a copper wire.
		Describe resistance and calculate it from experiments	A1 - 30	How does temperature affect resistance?
5	Biology- Microbes and Disease	Explain the effect of length and width of a wire on its resistance	NA	How does a filament lightbulb give out light?
		Name the 4 types of pathogen	NA	Draw a storyboard to show the life cycle of the malaria protist
		Describe how diseases can be spread	NA	Explore the roles of Edward Jenner, Alexander Fleming and Ignaz Semmelweis in medicine
		Describe the role of vaccines in fighting disease	NA	Research the job roles of a surgeon, GP, anaesthetist, neurologist, cardiologist, oncologist and see if they would interest you
	State what antibiotics are used for	NA	Why is the agricultural industry increasing antibiotic resistance?	
		Analyse a crime scene and decide on techniques to use for evidence	NA	Read about how to become a forensic scientist <a href="https://www.prospects.ac.uk/job-profiles/forensic-scientist">https://www.prospects.ac.uk/job-profiles/forensic-scientist</a>

5	Chemistry- Forensics	Analyse soil samples and carry out flame tests	NA	Research other reasons why soil is sampled by scientists
		Analyse inks, finger prints, DNA and dental records	NA	Do you think that everybody should have to give a sample of DNA to help solve future crimes?
		Describe how bodies are used to determine time of death	NA	Research the carbon cycle
6	Physics- Energy costs	Compare the energy values of food and fuels	A1 - 42	Make a poster showing the number of steps needed to burn off the calories in different foods
		State renewable and non-renewable energy resources	A1 - 44	Explore the BP website, look for evidence of improvements in renewable energies
		Explain the advantages and disadvantages of different energy resources	A1 - 44	How important is the role of the national grid in UK?
		Compare the energy usage and cost of running different home devices	A1 - 46	Apply for a smart meter from your energy supplier (should be free)
6	Biology- Lifestyle and Health	Describe the effects of drugs on health and behaviour	A2 - 126	How long does it take drugs to go from development to the counter?
		Describe the effect of alcohol on health and behaviour	A2 - 128	Research how the body breaks down alcohol
		Describe the effects of tobacco smoke on health	A2 - 130	Discuss whether Vaping is better than smoking
		Have knowledge of the following non-communicable diseases; obesity, cancer, diabetes	NA	Research the latest developments in finding a cure for cancer.
	Physics- Magnetism	Describe how magnets interact	A2 - 36	How can magnets be used to levitate vehicles to reduce friction?
		Describe how magnetic field diagrams tell you about the strength and direction of a magnetic field	A2 - 36	What is the difference between magnetic north and geographic north
		Describe how to make an electromagnet and change its strength	A2 - 38	What is the maglev train? Why is it so special?
		Describe how electric bells, circuit breakers and loudspeakers work	A2 - 40	What is resonance?

## Year 9

1	Biology - Cell structure	Recall how to use a microscope	B1.1	Research the difference between a light microscope and a scanning electron microscope.
		Correctly calculate magnification	B1.1	Confidently alter between millimetres and micrometres.
		Define and recognise prokaryotic and eukaryotic cells	B1.3	Research how the plasmids in bacteria are used in genetic engineering.
		The similarities and difference between prokaryotic and eukaryotic cells	B1.3	Understand the function of DNA
	Chemistry - Atomic structure	Balance complex equations	C1.1-1,2	Construct chemically correct equations from word equations
		Recall and correctly use state symbols	C1.2	Clearly explain the difference between liquid and a solution
		Recall and be able to explain the procedures of distillation, filtration, crystallisation, chromatography, and fractional distillation	C1.3-1.4	Be able to draw scientific diagrams of apparatus for these techniques
		Recall the history of the atom	C1.5	Recall dates and names of the evolution, rather than just the process.
	Physics - Energy	Recall how to work out energy stored in a moving object or in an object when it is lifted or stretched	P1.1-1.4	Be able to state units for everything in the equation
Know how energy is stored and transferred and what happens to it after it is used		P1.1-1.4	State the law of conservation of energy	
Be able recall all equations given in this topic		P1.1.-1.9	Use symbols as well as words in equations	
		Know how to rearrange all equations covered in the topic	P1.1.-1.9	Be able to rearrange equations containing four (or more) variables.
2	Biology - Cell transport and division	Recall the role of osmosis in the movement of specified materials in and between cells	B1.7	Plan an experiment to show osmosis using plastic bags as the semi-permeable membrane.
		Recall the role of active transport in the movement of specified materials in and between cells	B1.9	Link active transport to adaptations in animals, for example crocodiles and the salt glands in their tongues.
		Recall specific examples of osmosis in plants.	B1.8	Draw labelled diagrams for each example.
		Recall the following definitions: isotonic, hypertonic, hypotonic, turgor	B1.7-1.8	Be able to use this tier three vocabulary without any further need of explanation.
	Chemistry - Periodic table	Recall the development of the periodic table	C2.1	Recall dates and names of the evolution, rather than just the process.
		Link the structure of the periodic table to electronic configuration	C2.2	Predict element properties from location in the periodic table
		Recall properties of group 1 and group 7 elements.	C2.3-2.4	Recall experiments which demonstrate the difference in properties of group 1 and 7
	Physics - Heating	Explain the trends in reactivity of groups 1 and 7	C2.5	Link electronic configuration with reactivity of group 1 and 7 elements.
		Recall energy can be transferred by conduction	P2.1	Use diagrams to explain the theory of conduction
		Define specific heat capacity	P2.2	Explain why the cheese on a pizza will burn your mouth, but the crust will not.
List several ways of insulating buildings		P2.3	Explain why building need to be insulated	
		Evaluate methods of building insulation	P2.3	Link evolution to basic cost analysis
3	Biology - Digestion	Know how the digestive system in mammals works to digest and absorb food	B3.1-3.2	Be able to explain the role of villi in the intestine related to food absorption.
		Recall how the structure of an enzyme is related to its function in digestion	B3.4-3.5	Be able to plot and explain the shape of a graph of rate of reaction against temperature showing the denaturing of a catalyst.
		Understand why the efficiency of digestion can alter	B3.7	Link digestion efficiency to gall stones.
		Be able to fully explain the role of bile in digestion.	B3.7	Link surface area of food to enzyme effect and link this to bile formation.
	Chemistry - Bonding 1/2	Recall the three main states of matter	C3.1	Explain these in terms of particle theory.
		Recall the process of the formation of both anions and cations	C3.2-3.4	Link the process of ionic properties to the properties of ionic compounds
		Confidently predict the type of bonding involved between different groups of the periodic table	C3.3-3.4	Explain why each group bonds in the way it does.
		Use scientific notation to show the charge of the transition element ions.	C3.3-3.4	Use of roman numerals up to V

	Physics - Resources	Explain why the UK has an energy demand	P3.1	Evaluate given data on the UK's energy demand
		Recall how energy is produced from solar and wind	P3.2	Give limitations of these methods of energy production
		State why energy production can be destructive to our environment.	P3.3	Appreciate science does not know what will happen in the future, it uses model to predict likely scenarios
		Describe where most of the energy in the UK comes from	P3.4	Describe how this has changed over time
4	Biology - Organisation	Recall the circulatory system.	B4.2-4.4	Explain the use of stents, artificial pacemakers, and artificial hearts in modern medicine.
		Relate surface area: volume ratios and the adaptations of the alveoli of the lungs for effective gas exchange.	B4.5	Be able to carry out surface area: volume calculations.
		Recall the systems in plants which move food and minerals and be able to explain how they work	B4.7	Use food colouring and celery to show movement through the xylem.
		Know how transpiration and evaporation are controlled in plants	B4.8-4.9	Explain why the desert does not contain leafy plants.
	Chemistry - Bonding 2/2	Identify simple molecules from the location of the element in the periodic table	C3.6	Predict the properties of any simple molecule
		Recall the structure of simple molecules	C3.6	Draw dot and cross diagrams for any given simple molecule.
		Recall giant covalent structures, including fullerenes and graphene	C3.7	Link macromolecule properties to their structure
		Explain the bonding in metals	C3.8	Explain metallic properties in terms of bonding.
	Physics - Circuits 1/2	Define current and charge	P4.1	Recall units for both
		Recall circuits equations	P4.1	Be able to rearrange and correctly substitute into these equations
Define potential difference		P4.2	Be able to explain what potential difference is using diagrams	
Define resistance		P4.2	Explain what resistance is using several examples	
5	Biology - Infectious diseases 1/2	Describe the impact of obesity on human health	B5.1	Research the worldwide obesity epidemic and the routes taken by different governments to contain it.
		Explain how smoking and exercise can affect the health of systems in the body.	B7.3-B7.4	Research the BMI index and how levels are assigned within it.
		Know the role of bacteria and other pathogens in human diseases.	B5.2-5.3	Research the COVID-19 virus and how it is different from other viruses.
		Know how to calculate the effect of antibacterial chemicals by measuring the area of zones of inhibition.	B5.4	Be able to calculate surface areas
	Chemistry - Chemical changes 1/2	Recall the reactivity series	C5.1	Including hydrogen and carbon
		Predict the likelihood of displacement reactions proceeding	C5.2	Write balanced symbol equations for these reactions.
		Recall how metals are extracted	C5.3	Explain the processes involved in terms of oxidation and reduction.
		Give several uses of metals	C5.3	Including shape memory alloys.
	Physics - Circuits 2/2	Recall symbols used in circuit diagrams	P4.3	Be able to construct circuits using these notations
		Identify series circuits	P4.4	Know the characteristics of a series circuit
Identify parallel circuits		P4.5	Know the characteristics of a parallel circuits	
Choose which type of circuit would be better for a given scenario		P4.5	Evaluate the use of a chose circuit type of a specific function.	
6	Biology - Infectious diseases 2/2	Recall a history of vaccine development and production	B5.5	Explain why a vaccine for COVID-19 took so long to be made widely available.
		Recall the difference between viral and bacterial diseases, being able to name examples for both human and plants.	B5.6-5.7	Write an information leaflet explaining to non-scientists explaining the risks of food poisoning.
		Name several diseases caused by fungi and protists	B5.8	Link rose black spot to unhealthy plants due to restricted photosynthesis.
		Explain how the human body defends itself from illness.	B5.9	Research autoimmune diseases and the range in severity of illness.
	Chemistry - Chemical changes 2/2	Recall the five reactions which form salts	C5.4-5.6	Write balanced symbol equations for them all.
		Understand the difference between an alkali and a base	C5.4-5.6	Name and give formulae of several bases and alkalis.
		Define a weak and strong acid	C5.7	Give formulae for several weak and strong acids.
		Explain the difference between a strong acid and a concentrated acid	C5.7	Use diagrams to illustrate the explanation.