



## Alcester Academy Curriculum Planning: Key Stage 4 (Year 10)

Department: Science Year Group: 10						
Term	Topic/Subject	Assessment Objectives and Knowledge acquisition	Skill building <i>Intent</i>	Wider reading to include numeracy and SMSC	SEND & PP Identify where access and learning is supported	Final assessment task and title
Autumn	P2 Electricity	<p>Be able to draw and interpret circuit symbols.</p> <p>Understand what is meant by electric current and state the equation charge flow = current X time. Know the symbols and units for each of these.</p> <p>Be able to explain what happens to the current in a circuit as resistance is changed. Understand this relationship as a product of voltage = current X resistance. Know the symbols and units for each of these.</p> <p><b>Required practical:</b> investigate the relationship between the length of a wire and the resistance in a circuit, and combinations of resistors in series and parallel.</p> <p>Explain the difference between an ohmic and non-ohmic conductor. Know the I-V characteristics for a filament lamp, diode and an ohmic conductor.</p>	<p>Use a variety of models to solve problems, make predictions and develop scientific explanations of familiar and unfamiliar facts.</p> <p>Use appropriate apparatus to measure values. Plan experiments to make observations and test hypotheses. Evaluate methods and suggest possible improvements and further investigations. Present observation using appropriate methods. Present reasoned explanations including relating data to hypotheses.</p>	<p>Recall and apply equations.</p> <p>Wider reading around electrical safety in the home</p> <p>Issues around our use of electricity and how this can be reduced (linked to generation)</p> <p>Recall and apply equations.</p> <p>Interpret graphs</p>	<p>Students are ability set</p> <p>Smaller groups for set 4 and 5</p> <p>Careful seating plans</p> <p>All PP will be offered a revision guide</p> <p>Encourage use of HW club</p> <p>Content differentiation as highlighted between triple, higher and foundation</p> <p>Use of TA support in lessons</p>	<p>End of topic test.</p> <p>Comparing series and parallel circuits longer answer.</p> <p>Resistance in a wire practical task</p>



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	<p><b>Required practical:</b> use circuit diagrams to investigate the I-V characteristics of a diode, filament lamp and an ohmic conductor.</p> <p>Know the factors that affect resistance in a thermistor and a LDR. Know the application of both of these components in circuitry. Explain the design and use of a circuit to measure the resistance of a component.</p> <p>Understand the difference between series and parallel circuits. Understand the patterns of current, potential difference and resistance in both series and parallel circuits. Apply such knowledge to solve problems for circuits.</p> <p>Be able to state the voltage and frequency of UK mains. Be able to explain the difference between AC and DC.</p> <p>Be able to identify the three wires that make up the three-core cable in electrical appliances. State the roles of these three wires and give the approximate potential difference of each relative to one another. Explain when the three-core cable can become dangerous (connection between the live and earth wire).</p>	<p>Use appropriate apparatus to measure values. Plan experiments to make observations and test hypotheses. Evaluate methods and suggest possible improvements and further investigations. Present observation using appropriate methods. Present reasoned explanations including relating data to hypotheses.</p> <p>Explaining phenomena mathematically.</p>	<p>Recall and apply equations. Plotting graphs.</p> <p>Recall and apply equations. Plotting graphs.</p>	<p>Bespoke revision support where available</p> <p>Use of LSU to chase parents evening appointments and follow up</p>	
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	<p>Explain that power is related to the potential difference across it and the current through it. Recall the apply the equations: power – potential difference X current and power = (current)<sup>2</sup> X resistance. Know the symbols and units for all these subjects.</p> <p>Understand that everyday appliances are designed to bring about energy transfers. Recall and apply the equations: energy transferred = power X time and energy transferred = charge flow X potential difference. Describe the relationship between the power ratings for domestic appliances and the changes in stored energy when they are in use.</p> <p>Understand what the national grid is. Describe the roles of step-up transformers and step-down transformers.</p> <p><b>Higher physics only:</b> state what a transformer consists of and utilise the equation:</p> $\left[ \frac{V_p}{V_s} = \frac{N_p}{N_s} \right]$ <p>Apply the equation to the currents and power transfer involved, and relate these to the advantages and disadvantages of power transmission at high potential differences.</p>	<p>Utilising equations to explain phenomena.</p>	<p>Recall and apply equations. Mathematically represent relationships.</p> <p>Recall and apply equations.</p> <p>Recall and apply equations.</p>		
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		<p><b><i>Physics only:</i></b> <b><i>Describe what causes static. Describe evidence of charged objects exhibiting attraction and repulsion.</i></b> <b><i>Draw the electric field for an isolated charged sphere. Explain an electric field.</i></b></p>				
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Autumn	B2 Human Organisation	<p>Understand what cells, tissues, organs and organ systems are.</p> <p>Describe the structure and function of the digestive system. Explain what enzymes are and how they work using the “lock and key” model. Relate the factors temperature and pH to their rate of action.</p> <p>To recall the sites of lipase, amylase and protease production and state their functions.</p> <p>To state the products of the breakdown of carbohydrates, lipids and proteins and recognise simple equations to represent these changes.</p> <p>Explain what bile does and how it achieves its function.</p> <p><b>Required practical:</b> To carry out food tests for starch, reducing sugars, lipids and proteins.</p> <p><b>Required practical:</b> To carry out an investigation into the effect that pH has on amylase’s ability to break down starch</p> <p>State and describe differences between the three type of blood vessels. Describe how to structure of these vessels relates to their function.</p>	<p>Be able to convert between units. Build up an appreciation of size and scale.</p> <p>Mathematics improvement through enzyme rate calculations.</p> <p>Use appropriate apparatus to measure values. Plan experiments to make observations and test hypotheses. Evaluate methods and suggest possible improvements and further investigations. Present observation using appropriate methods.</p> <p>Safely use a microscope to observe blood cells.</p> <p>Evaluate different methods of treatment bearing in mind the risks associated with each.</p>	<p>Interpret graphs of breathing, HR etc</p> <p>Wider reading around transplants</p> <p>Calculations.</p> <p>Discussions around the use of transplanted organs</p> <p>Links to health and responsibility to maintain our own health eg diet, smoking</p> <p>Appreciating risk factors for illnesses.</p> <p>To appreciate some of the choices in life that can lead to negative health conditions.</p>		<p>End of topic test. practical on enzyme activity write up sheet.</p>
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		<p>Be able to name the different parts of the heart and explain what is meant by the double-circulatory system. Explain how the heart beat is controlled.</p> <p>State the three components of the blood and describe the function of each.</p> <p>Describe what causes coronary heart disease and evaluate the advantages and disadvantages of treating this by either use of drugs, mechanical devices or transplant.</p> <p>Be able to describe the differences between health and disease and the interactions between certain types of disease</p> <p>To outline some of the factors that may increase the risk of one developing non-communicable diseases. Describe the negative impacts that non-communicable diseases have at an individual, national and global level.</p> <p>To describe cancer as uncontrolled cell division. To explain the difference between malignant and benign tumours and explain how they can spread to form secondary tumours. To outline some of the risk factors for cancer.</p>	<p>Translate disease information between different forms to identify a correlation between two variables.</p> <p>Interpret data about risk factors</p>	<p>Constructing a method for the practical activity.</p> <p>Promoting construction of evaluate method</p> <p>Interpret data on histograms, bar charts, frequency tables and scatter diagrams to study incidences of diseases.</p> <p>Understanding the principles of sampling as applied to scientific data.</p>		
Autumn	C4 Chemical changes	Understand that metals react with oxygen to produce metal oxides. Explain			Issues of safety with use of chemicals	End of topic test



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	<p>oxidation and reduction in terms of gain or loss of oxygen. Recall and describe the reactions of certain metals with dilute acids and place them in order of reactivity. Explain that the reactivity of a metal relates to its ability to form a positive ion. Deduce an order of reactivity bases on results.</p> <p><b>Higher only:</b> Explain oxidation and reduction in terms of electron transfer. Write ionic equations for displacement reactions. Identify which species are being oxidised and reduced.</p> <p>To know that acid and alkali yields salt and water. To be able to name the salt produced based upon the acid and the alkali used.</p> <p>To know that acid and carbonate yields salt and water and carbon dioxide. Use the formulae and common ions to deduce formulae of salts.</p> <p>To explain how soluble salts can be formed from acid and metals, metal oxides and hydroxides</p> <p><b>Required practical:</b> To make an sample of a soluble salt from an insoluble oxide or carbonate.</p> <p>To understand what the pH scale shows and how such values can be measured in a laboratory.</p>	<p>Apply knowledge of a range of techniques, instruments, apparatus and materials to select those appropriate to the experiment. Correctly manipulate apparatus to carry out an experiment affectively. Safe use of equipment.</p>	<p>Forming chemical equations reinforcement.</p> <p>Issues of safety with use of chemicals Reactivity of metals linked to their use and extraction – conserving resources for future generations</p> <p>Forming chemical equations reinforcement.</p> <p>Constructing a method for the practical.</p> <p>Make order of magnitude calculations.</p>	<p>Reactivity of metals linked to their use and extraction – conserving resources for future generations</p>	<p>Making copper sulphate 6 mark question Making salts worksheet.</p>
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	<p>To understand that acids produce <math>H^+</math> ions and that alkalis produce <math>OH^-</math> ions in solution.</p> <p><b>Higher only:</b> Be able to explain why acids are considered to be strong or weak.</p> <p>Explain the difference between dilute and weak acids, and weak and strong acids.</p> <p>Explain pH value in terms of the concentration of hydrogen ions in solution and know what as the pH value decreases by 1, the hydrogen ion concentration increases by a factor of 10.</p> <p>Know that for a molten ionic substance, the metal is produced at the negative anode and that the non-metal is produced at the positive cathode.</p> <p>State when it is appropriate to use electrolysis as a method for metal extraction. Know that lots of energy is required in electrolysis.</p> <p>For the separation of aluminium oxide, state why mixture with cryolite is necessary. Explain why the anode must be continually replaced.</p> <p>Students should be able to predict the products of the electrolysis of aqueous</p>	<p>use a variety of models to solve problems, make predictions and develop scientific explanations of familiar and unfamiliar facts.</p>	<p>Practical method write up.</p> <p>Balancing equations.</p>		
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		<p>solutions containing a single ionic compound.</p> <p><b>Required practical:</b> investigate what happens when aqueous solutions are electrolysed using inert electrodes.</p> <p><b>Higher only:</b> to be able to represent oxidation and reduction reactions at the cathode and anode as half equations.</p>				
Autumn	C3 Chemical Quantities	<p>Understand what is meant by the conservation of mass in terms of no gains or loss of atoms during chemical reactions.</p> <p>To explain how to calculate the <math>M_r</math> of a compound and molecule. To calculate the <math>M_r</math> of both reactants and products and use this information to show that mass is conserved.</p> <p>To understand first, that mass appears to be gained when one of the reactants is a gas and second, that mass appears to be lost when one of the products is a gas.</p> <p>Students should be able to:</p> <ul style="list-style-type: none"> <li>● Represent the distribution of results and make estimations of uncertainty.</li> <li>● Use the range of a set of measurements about the mean as a measure of uncertainty</li> </ul>	<p>Use experimental methods to collect data</p> <p>Use provided experimental data and interpret this</p> <p>Carry out a variety of calculations</p>	<p>Carry out a variety of calculations</p> <p>Interpret graphs</p> <p>Links to making industry more efficient and conserving resources</p> <p>Recall and apply equations.</p> <p>Recall and apply equations.</p>		<p>Calculating formula mass</p> <p>End of Unit Test</p>



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	<p><b>Higher only:</b> To know that 1 mole of a substance is equal to its formula mass/ atomic mass. To know that 1 mole of equal to <math>6.02 \times 10^{23}</math> atoms, molecules or ions.</p> <p><b>Higher only:</b> To be able to calculate the masses of reactants and products from balanced symbol equations.</p> <p><b>Higher only:</b> Students should be able to balance equations given the masses of reactants and products.</p> <p><b>Higher only:</b> To explain what a limiting reactant is and the effect such a limiting reactant will have on the amount of product formed.</p> <p>To be able to calculate concentrations, mass, and volume from the equation concentration = mass/volume. Students should know the units for all these subjects.</p> <p><b>Higher only:</b> Explain how the mass of a solute and the volume of a solution is related to the concentration of the solution.</p>		<p>Using ratios, percentages and fractions.</p> <p>Changing the subject of an equation.</p> <p>Changing the subject of equations.</p>		
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Spring	C7 Hydrocarbons	<p><b>CRUDE OIL AND HYDROCARBONS to know:</b>            How is crude oil separated?            What are the hydrocarbons that make up crude oil?            How does the size of hydrocarbons affect flammability?</p> <p><b>PROPERTIES OF HYDROCARBONS</b>            What is incomplete combustion?            How is the supply of petrol increased to match the demand?            What is an unsaturated hydrocarbon?</p> <p><i>Triple only</i>  <b>ALCOHOLS AND CARBOXYLIC ACIDS</b> <i>How is fermentation used to make alcohol? What is the functional group of a carboxylic acid? How are carboxylic acids used to make perfumes?</i></p> <p><b>ADDITION AND CONDENSATION POLYMERS</b> <i>Why is poly(ethene) known as an addition polymer? What does the formula of a polymer tell us? Why is polyester known as a condensation polymer? AMINO ACIDS, DNA AND OTHER NATURAL POLYMERS</i> <i>How many functional groups do amino acids have? How do the parts of the DNA structure fit together? Why are starch and cellulose known as polymers?</i></p>	<p>Make models of alkanes molecules using the molecular model kits</p> <p>Investigate the properties of different hydrocarbons..</p> <p>Evaluate risks both in practical science and in the wider social context Plan experiments or devise procedures to make observations and test hypothesis.</p> <p>Plan experiments or devise procedures to make observations and test hypothesis.</p>	<p>Visualise and represent two-dimensional and three-dimensional forms including 2D representations of 3D objects.</p> <p>Plot two variables from experimental or other data</p> <p>Use ratios, fractions and percentages</p> <p>Use SI units and IUPAC chemical nomenclature unless inappropriate</p> <p>Additional reading around oil spill disasters such as deep water horizon.</p> <p>use of hydrocarbons and how this impacts the environment</p>		<p>Fractional distillation of</p> <p>For triple – describe the uses of polymers (related to properties)</p>
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				<p>Understand why changes to our use of hydrocarbons may be slow and the impact the governments have on this</p> <p>Appreciate why petroleum companies are so influential</p> <p>Link to the impact that hydrocarbon use has on the environment</p> <p>Careers links within the petrochemicals and plastics industries</p>		
Spring	P6 Waves	<p>Waves may be either transverse or longitudinal. The ripples on a water surface are an example of a transverse wave. Longitudinal waves show areas of compression and rarefaction. Sound waves travelling through air are longitudinal.</p> <p>Students should be able to describe evidence that, for both ripples on a water surface and sound waves in air, it is the wave and not the water or air itself that travels.</p>	<p>Students should be able to construct ray diagrams to illustrate the reflection of a wave at a surface.</p> <p>Using data provided to discuss risk factors</p> <p>Recall and apply the wave equation</p> <p>Evaluate risks both in practical science and the</p>	<p>Students should be able to apply this equation which is given on the Physics data sheet</p> <p>Convert between units</p> <p>Wider reading on risks of UV and exposure to</p>		<p>Use of EM waves</p> <p>End of unit test</p>



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	<p>Waves can be reflected at the boundary between two different materials. Waves can be absorbed or transmitted at the boundary between two different materials.</p> <p>Students should be able to construct ray diagrams to illustrate the reflection of a wave at a surface. Students should be able to describe the effects of reflection, transmission and absorption of waves at material interfaces</p> <p>Students should be able to:</p> <ul style="list-style-type: none"><li>• describe, with examples, processes which convert wave disturbances between sound waves and vibrations in solids. Examples may include the effect of sound waves on the ear drum</li><li>• explain why such processes only work over a limited frequency range and the relevance of this to human hearing. Students should know that the range of normal human hearing is from 20 Hz to 20 kHz.</li></ul> <p>Students should be aware that the study of seismic waves provided new evidence that led to discoveries about parts of the Earth which are not directly observable.</p> <p><b>(HT only) Different substances may absorb, transmit, refract or reflect electromagnetic waves in ways that vary with wavelength. (HT only) Some effects, for example refraction, are due to the difference in velocity of the waves in different substances. Students</b></p>	<p>wider societal context, including perception of risk in relation to data and consequences.</p> <p>Use SI units (eg kg, g, mg; km, m, mm; kJ, J) and IUPAC chemical nomenclature unless inappropriate.</p>	<p>microwaves (mobile phones)</p> <p>Students should be able to recall and apply this equation.</p> <p>Use prefixes and powers of ten for orders of magnitude (eg tera, giga, mega, kilo, centi, milli, micro and nano). Interconvert units. Use an appropriate number of significant figures in calculation.</p>		
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	<p>should be able to construct ray diagrams to illustrate the refraction of a wave at the boundary between two different media. (HT only) Students should be able to use wave front diagrams to explain refraction in terms of the change of speed that happens when a wave travels from one medium to a different medium.</p> <p>(HT only) Students should be able to give brief explanations why each type of electromagnetic wave is suitable for the practical application.</p> <p><b>Triple only</b></p> <p><i>The magnification produced by a lens can be calculated using the equation: <math>\text{magnification} = \frac{\text{image height}}{\text{object height}}</math> Magnification is a ratio and so has no units. Image height and object height should both be measured in either mm or cm.</i></p> <p><i>Students should be able to explain:</i></p> <ul style="list-style-type: none"><li>• how the colour of an object is related to the differential absorption, transmission and reflection of different wavelengths of light by the object</li><li>• the effect of viewing objects through filters or the effect on light of passing through filters</li><li>• why an opaque object has a particular colour.</li></ul> <p><i>Students should be able to explain:</i></p> <ul style="list-style-type: none"><li>• that all bodies (objects) emit radiation</li><li>• that the intensity and wavelength</li></ul>				
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		<p><i>distribution of any emission depends on the temperature of the body. (HT only) A body at constant temperature is absorbing radiation at the same rate as it is emitting radiation. The temperature of a body increases when the body absorbs radiation faster than it emits radiation. (HT only) The temperature of the Earth depends on many factors including: the rates of absorption and emission of radiation, reflection of radiation into space. (HT only) Students should be able to explain how the temperature of a body is related to the balance between incoming radiation absorbed and radiation emitted, using everyday examples to illustrate this balance, and the example of the factors which determine the temperature of the Earth.</i></p>				
Summer	C9 The atmosphere	<p>Identify the gases of the atmosphere. Recall the proportions of the gases. Explain how the balance of the gases is maintained. Describe ideas about the Earth's early atmosphere. Interpret evidence about the Earth's early atmosphere. Evaluate different theories about the Earth's early atmosphere. Identify the processes allowing oxygen levels to increase. Explain the role of algae in the composition of the atmosphere.</p>	<ul style="list-style-type: none"> <li>extract and interpret information about resources from charts, graphs and tables use orders of magnitude to evaluate the significance of data.</li> <li>Translate information between graphical and numeric form.</li> </ul>	<p>To use ratios, fractions and percentages. use orders of magnitude to evaluate the significance of data. Recognise and use expressions in decimal form. Use ratios, fractions and percentages.</p>		<p>Describe ways the impact and carbon footprint of cars</p> <p>End of unit test</p>



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		<p>Recall the equation for photosynthesis.</p> <p>Describe the main changes in the atmosphere over time.</p> <p>Describe some of the likely causes of these changes.</p> <p>Explain how the deposits of limestone, coal, crude oil and gas were formed.</p> <p>Describe the greenhouse gases.</p> <p>Explain the greenhouse effect.</p> <p>Explain these processes as interaction of short and long wavelength radiation with matter.</p> <p>Describe two activities that increase the amounts of carbon dioxide and methane.</p> <p>Evaluate the quality of evidence in a report about global climate change.</p> <p>Describe four potential effects of global climate change.</p> <p>Discuss the scale and risk of global climate change.</p> <p>Discuss the environmental implications of climate change.</p> <p>Explain that the carbon footprint can be reduced by reducing emissions of carbon dioxide and methane.</p> <p>Describe how emissions of carbon dioxide can be reduced.</p> <p>Describe how emissions of methane can be reduced.</p> <p>Give reasons why actions to reduce levels of carbon dioxide and methane may be limited.</p> <p>Give reasons why methane is difficult to reduce.</p> <p>Describe how carbon monoxide, soot, sulfur dioxide and oxides of nitrogen are produced by burning fuels.</p>	<ul style="list-style-type: none"> <li>Required practical 8: analysis and purification of water samples from different sources, including pH, dissolved solids and distillation</li> <li>LCAs should be done as a comparison of the impact on the environment of the stages in the life of a product, and only quantified where data is readily available for energy, water, resources and wastes.</li> <li>Interpret LCAs of materials or products given appropriate information. Recognise the importance of peer review of results and of communicating results to a wide range of audiences.</li> <li>Use fractions and percentages to describe the</li> </ul>	<p>Make estimates of the results of simple calculations. Use an appropriate number of significant figures. Earth's atmosphere – looking at pollution-causes and consequences</p>		
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		<p>Predict the products of combustion of a fuel knowing the composition of the fuel.</p> <p>Predict the products of combustion of a fuel knowing the conditions in which it is used.</p> <p>Describe and explain the problems caused by increased amounts of oxides of carbon, sulfur and nitrogen as pollutants in the air.</p> <p>Describe and explain the effects of acid rain.</p> <p>Evaluate the role of particulates in damaging human health.</p> <p><b><i>Triple-Using materials (chemistry only)</i></b>  <b><i>Corrosion and its prevention</i></b>  <b><i>Investigate the conditions for rusting.</i></b></p>	<p>composition of mixtures.</p> <ul style="list-style-type: none"> <li>• Use ratios to determine the mass of products expected.</li> <li>• Calculate percentage yields in chemical reactions.</li> </ul>			
Summer	B7 Ecology	<p>Describe what an ecosystem is.</p> <p>Explain the importance of high biodiversity.</p> <p>Explain what is meant by a self-supporting ecosystem</p> <p>Identify factors that affect ecosystems.</p> <p>Explain changes in the distribution of species in an ecosystem.</p> <p>Describe stable and unstable populations.</p> <p>Describe how changes in one population affect another.</p> <p>Explain interdependent relationships.</p> <p>Explain how predator–prey population cycles have cyclical changes.</p> <p>Describe how competition impacts on populations.</p>	<p>Plan experiments to test a hypothesis.</p> <p>Explain the apparatus and techniques used to sample a population.</p> <p>Explain how a representative sample was taken.</p> <p>Use surface area to volume ratios to explain some adaptations.</p> <p>To recognise direct proportionality in a graph.</p> <p>To calculate reaction rates in linear graphs.</p>	<p>Extract and interpret information from charts, Graphs and tables.</p>	<p>Impact of humans on the environment.</p> <p>Understand that some people have ethical objections to some modern intensive farming methods</p> <p>Discussion of vegan / vegetarian diets and their effects on food chains</p>	<p>Quadrats practical</p> <p>End of unit test</p>



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	<p>Explain why animals in the same habitat are in competition. Explain interspecific and intraspecific competition. Use scientific ideas to develop a hypothesis. Develop a reasoned explanation for some data. Recall why animals have adaptations. Explain some adaptations. Identify some adaptations of plants and bacteria. Explain the importance of plant adaptations. Explain a range of plant adaptations. Recall that many materials are recycled in nature. Explain the stages in the water and decay cycles. Explain the importance of recycling materials. Recall that plants take in carbon as carbon dioxide. Explain how carbon is recycled. Interpret a diagram of the carbon cycle. Identify why land use has changed. Describe the effects of changing land use. Evaluate a change in land use. State the reasons for deforestation.</p>	<p>To use the gradient of a graph to calculate the rate. Recording first hand observations of organisms. Interpret and explain the processes in diagrams of the carbon cycle, the water cycle. Interpret population and food production statistics to evaluate food security.</p> <p><b><i>Triple only- Required practical activity 10: investigate the effect of temperature on the rate of decay of fresh milk by measuring pH change.</i></b></p>			
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		<p>Understand the impact of peat bog destruction and deforestation.</p> <p>Evaluate the destruction of peat bogs and forests.</p> <p>Recall what global warming is.</p> <p>Describe the causes of global warming.</p> <p>Explain how global warming impacts on biodiversity.</p> <p>Describe how waste production is linked to human population growth.</p> <p>Describe the impact of waste on ecosystems.</p> <p>Explain how waste impacts on biodiversity.</p> <p>Identify pollution levels using indicator species.</p> <p>Explain how indicator species measure pollution.</p> <p>Compare different methods of measuring pollution.</p> <p><b>Triple only-Impact of environmental change (biology only) (HT only)</b></p> <p><b>Content Key</b></p> <p><b>Trophic levels in an ecosystem (biology only)</b></p> <p><b>Food production (biology only)</b></p> <p>Describe some conservation measures.</p> <p>Describe the impact of breeding programmes.</p> <p>Explain how habitats are regenerated.</p>				
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