

Yr9 Term 3 Science  
Start GCSE Chemistry and Biology

Unit	Summary	Skills	Assessment	British Values and SMSC	Career links	Cross-curricular links
Chemistry Atomic Structure and the Periodic Table	<p>Recognise the structure of the atom Determine the number of sub-atomic particles using the periodic table</p> <p>Draw the structure of the atom Draw the structure of ions</p> <p>Explain how ions formed Describe how and why the model of the atom has changed over time</p> <p>Describe / explain how and why the periodic table has changed over time</p> <p>Balance symbol equations</p> <p>Describe and explain: Chromatography (Paper) Distillation Filtration</p>	<p>Interpreting data</p> <p>Interpreting models</p> <p>Simple calculations</p> <p>Evaluating methods / Data</p> <p>Planning and writing methods</p>	<p>End of Topic assessment</p> <p>HW – past exam questions</p>	<p>sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible use of imagination and creativity in their learning</p>	<p>Chemist, pharmacist, nutritionist, Doctor, epidemiologist, nurse, vet, parent,</p>	<p>Maths, Technology, Art, History</p>
Biology Cell Biology	<p>Stating the organelles in a plant cell, animal cell and bacteria.</p> <p>State the function of each organelle</p> <p>Categorise cells as a Prokaryote of Eukaryote</p>					

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	<p>Recognise how to use a light microscope</p> <p>Describe the differences between a light microscope and an electron microscope</p> <p>Use the equation <math>I = A \times M</math></p>					
<p>Biology Genes, Chromosomes, Mitosis and STEM cells</p>	<p>Describe how genes, gametes and chromosomes are related</p> <p>Describe and explain the stages in cell division, Mitosis and Meiosis</p> <p>State the function of each form of cell division</p> <p>Describe and explain cell differentiation in plants and animals</p> <p>Define the term STEM cell Discuss therapeutic cloning and the use of STEM cells</p>					