



Year 7 is part of Key Stage 3, in Science. The course starts with an introductory module that introduces learners to the laboratory apparatus, how to work safely and how to collect data. Pupils are then taught a series of Biology, Chemistry and Physics topics. To maximise the opportunity for pupils to use limited practical equipment, the modules are not taught all at the same time. All pupils will study every module but they may not be in the order presented below.

TERM	UNIT	WHAT WILL YOU BE LEARNING?	ARE YOU PREPARED FOR LEARNING?
1	<i>Introduction Module</i> <i>B7.1 – All about cells</i>	<ul style="list-style-type: none">• The microscope• Different types of plant and animal cell• Diffusion• Unicellular organisms	Your exercise book will be clearly presented and all work will be complete. Practical work will be written up and evidence of practical work will be kept in your exercise book.
2	<i>C7.1 – Particles and their behaviour</i> <i>P7.1 - Forces</i>	<ul style="list-style-type: none">• The particle model• States of matter• Melting, freezing and boiling• Changes of state• Diffusion• Gas Pressure • What are forces• Squashing and stretching• Friction• Streamlining• Gravity• Balanced and unbalanced forces	You will come to lesson with stationery, books and relevant homework.
3	<i>B7.2 – Structure and function of body systems</i>	<ul style="list-style-type: none">• Systems of the body• The working lung• The skeleton	

	<i>C7.2 – Elements, Atoms and Compounds</i>	<ul style="list-style-type: none"> • How joints allow movement • What is an element • What is an atom • What is a compound • What is a chemical formula 	
4	<i>P7.2 – Sound</i> <i>B7.3 - Reproduction</i>	<ul style="list-style-type: none"> • Sound travels as waves • Sound is a type of energy • Loudness and pitch • Detecting sounds / structure of the ear • Measuring how loud sounds are • Echoes and ultrasound • Flowers as the organ of plant reproduction • Pollination and fertilisation • Germination and seed dispersal • Adolescence • Male reproductive system • Female reproductive system. • Fertilisation and implantation • Development of a foetus • Contraception 	
5	<i>C7.3 – Chemical Reactions</i>	<ul style="list-style-type: none"> • Chemical reactions • Word equations • Burning fuels • Thermal decomposition • Conservation of mass • Exothermic and endothermic reactions 	

	P7.3 - Light	<ul style="list-style-type: none"> • Luminous sources and how light travels in straight lines. • Transparent, translucent and opaque • Reflection • Refraction • Lenses • The eye • Colour 	
6	C7.4 – Acids and Alkalis	<ul style="list-style-type: none"> • What are acids and alkalis • Indicators and pH • Neutralisation • Making salts 	
<p>At the end of each module students are set revision exercises to complete before taking a test. At the end of each section there will be a synoptic test covering all material studied. At the end of the year there will be an examination on all material studied so far.</p>			