

Curriculum Overview – Year 7 Science

Unit Title	Learning	How can parents best support?
Safety Project	Students will learn about:	Encourage the completion of weekly homework
	Hazards in science	quizzes
	Scientific apparatus	Engage in scientific discussions
	Equipment for measuring.	Use the knowledge organiser to learn the
	Using a Bunsen burner safely	meanings of essential keywords.
	 Conducting full practical investigations safely. 	
Key Scientific skills	Students will learn about:	Encourage the completion of weekly homework
	The units for certain measurements.	quizzes
	 Identifying variables. 	Engage in scientific discussions
	Designing results tables.	Use the knowledge organiser to learn the
	 Interpreting graphs. 	meanings of essential keywords.
Substance and Properties	Students will learn;	Encourage the completion of weekly homework
	The properties of composite materials	quizzes
	How to classify materials based on their properties and melting	Engage in scientific discussions
	points	Use the knowledge organiser to learn the
		meanings of essential keywords.
Cells, Inheritance and	Students will learn about:	Encourage the completion of weekly homework
Organ Systems	Cells and cell structure.	quizzes
	Using microscopes.	Engage in scientific discussions
	Diffusion	Use the knowledge organiser to learn the
	Inheritance and DNA	meanings of essential keywords.
	Organisation of the body.	
	Digestive system	
	Respiratory system.	
	Circulatory system	
	Skeletal and muscle system.	

	The effects of exercise of the body.	
Forces and Motion	 Students will learn, How to describe forces and how they effect speed, direction and shape. How to calculate balanced, unbalanced and resultant forces. To investigate the uses of friction Energy stores and transfers. How to use Sankey diagrams to show efficiency. The cost, use and fuel bills. 	Encourage the completion of weekly homework quizzes Engage in scientific discussions Use the knowledge organiser to learn the meanings of essential keywords.
Sound, Light and Waves	 Students will learn about; How sounds are produced How sound travels through different media How the ear works, uses of ultrasound and the auditory range of animals The physical properties of light How light is reflected and refracted About the effects of distance on light 	Encourage the completion of weekly homework quizzes Engage in scientific discussions Use the knowledge organiser to learn the meanings of essential keywords.
Variation, Adaptation and Evolution	 Students will learn; How the differences in DNA can lead to variation, both continuous and discontinuous How variations are caused How fossils are formed and giving an evidence of history 	Encourage the completion of weekly homework quizzes Engage in scientific discussions Use the knowledge organiser to learn the meanings of essential keywords.
Health and Disease	 The students will be studying; Good and ill health (factors affecting health and disease) 	Encourage the completion of weekly homework quizzes

	 Disease (communicable and non-communicable) Antibiotics and resistance Investigating antimicrobials 	Engage in scientific discussions Use the knowledge organiser to learn the meanings of essential keywords.
Designing Materials	 Students will learn; That polymers are long chains of repeating units and how their properties change based on their arrangement 	Encourage the completion of weekly homework quizzes Engage in scientific discussions Use the knowledge organiser to learn the meanings of essential keywords.
Solar System and Beyond	 Students will learn; The structure of the Earth, solar system and galaxies That gravity is a force, measured in newtons 	Encourage the completion of weekly homework quizzes Engage in scientific discussions Use the knowledge organiser to learn the meanings of essential keywords.