



St Paul's International College Science Department  
Scope and Sequence Year 8 Stage 4 2024

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10/11
<b>Term 1</b>	<b>All Systems Go</b>									
	<b>Approximately 33 Hours</b>									
	This unit is about the living systems of plants and animals. The major focus is on how the cells, tissues and organs work together in coordinated systems so the organism can function effectively. Technological and medical advancements designed to combat disease and ailments are also studied.									
	<b>Outcomes:</b> SC4-1VA, SC4-3VA, SC4-4WS, SC4-5WS, SC4-6WS, SC4-7WS, SC4-8WS, SC4-9WS, SC4-14LW, SC4-15LW									
	<b>Assessment:</b> Practical report exercise and heart rate, Tests on the body systems, Research assignment organ transplantation, Test on reproduction									

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<b>Term 2</b>	<b>Our Resourceful Planet</b>									
	<b>Approximately 27 Hours</b>									
	The first part of this unit looks at the Earth's place in space and where do we belong in our solar system. It will help demystify phenomena of day and night, seasons, tides and even eclipses. The second part of this unit explores the many varied natural resources that our planet has to offer. The high use and demand for these resources is such that it is depleting the supplies. Conservation is the key to prolonging our renewable resources and better alternatives or technological advancements are the option to preserving our non-renewable resources.									
	<b>Outcomes:</b> SC4-1VA, SC4-2VA, SC4-3VA, SC4-4WS, SC4-5WS, SC4-6WS, SC4-7WS, SC4-8WS, SC4-9WS, SC4-12ES SC4-13ES									
	<b>Assessment:</b> Practical report Research task, Comprehension activity, <b>Open-Ended Stage 4 Investigation into Renewable Energy</b>									



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<b>Term 3</b>	<b>matter and energy</b>										
	Approximately 30 Hours										
	Within this unit students learn how to classify matter as an element, compound or mixture and how the properties of these forms of matter can give rise to a number of uses. The term 'energy' is then defined and different forms of energy are discussed. Everyday energy transfers and transformations are explored with an appreciation of the conservation of energy. Finally energy efficiency and the ways to conserve energy are investigated.										
	<b>Outcomes:</b> SC4-1VA, SC4-2VA, SC4-3VA, SC4-4WS, SC4-5WS, SC4-6WS, SC4-7WS, SC4-8WS, SC4-9WS, SC4-11PW, SC4-17CW										
	<b>Assessment:</b> Test on elements, compounds and mixtures, <b>Open ended Stage 4 Individual Research and presentation of an element or compound whose discovery was very important to society</b> , Group practical investigation into insulation/double glazing, Practical test on electricity, Term test.										
<b>Term 4</b>	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	
	<b>Food and Water</b>										
	Approximately 27 Hours										
	In this unit students explore the world of ecosystems, food webs, food chains, the water cycle and water treatment. Through their learning students will learn to appreciate the importance of monitoring and managing our food and water resources if we are to protect our ecosystems and maintain life.										
	<b>Outcomes:</b> SC4-1VA, SC4-2VA, SC4-6WS, SC4-7WS, SC4-9WS, SC4-13ES, SC4-14LW, SC4-15LW										
<b>Assessment:</b> Research and present a persuasive text regarding the use of storm water or desalination, Presenting information summarised from secondary sources, Research task into introduced species, End of Unit test.											