



St Paul's International College 2026 Year 10 Science Scope and Sequence

Term	Week	Topics
1	1	The Periodic Table and Chemical Reactions (Approximately 33 hours)
	2	The Periodic Table is an iconic model used to explain and explore the properties of elements. Chemical reactions are part of our everyday lives. They are many and varied: some are responsible for our very existence and well-being and some provide useful materials and resources that are needed to maintain our lifestyles.
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	6	Outcomes: SC5-1VA, SC5-3VA, SC5-4WS, SC5-5WS, SC5-6WS, SC5-7WS, SC5-8WS, SC5-9WS, SC5-16CW, SC5-17CW
	7	Assessment:
	8	Research and presentation skills on Elements, Understanding the concept of shells, Mid Term test, Group practical investigation
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2	1	The Universe (Approximately 33 hours)
	2	The evolution of the universe. The Steady State Theory is compared with the BigBang Theory. Technological advances that have helped scientists to better understand the universe are investigated. Experimental design is a focus. Students will plan, carry out and write a report on an investigation.
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	5	Outcomes: SC5-1VA, SC5-4WS, SC5-5WS, SC5-6WS, SC5-7WS, SC5-8WS, SC5-9WS, SC5-12ES
	6	Assessment:
	7	Summarising and pictorially representing information on stars, Researching and presenting a timeline, End of Unit Test, Preparing for and completing the Mandatory Student Individual Practical Investigation
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3	1	Genetics and Evolution (Approximately 33 hours)
	2	The structure of DNA and the role of genes in passing characteristics from generation to generation during reproduction. The mechanism of natural selection and its role in evolution.
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	5	Outcomes: SC5-1VA, SC5-3VA, SC5-6WS, SC5-7WS, SC5-9WS, SC5-14LW, SC5-15LW, SC5-16CW
	6	Assessment:
	7	Mid Term test, Research and Poster presentation, Extracting information from Video and other sources.
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4	1	Ecosystems and the Environment (Approximately 25 hours)
	2	Biotic and abiotic factors. The flow of energy and the cycling of matter. The importance of biodiversity and the impact of humans on ecosystems. Society's impact on the global system. The carbon cycle and greenhouse effect. Problems resulting from climate change.
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	5	Outcomes: SC5-1VA, SC5-2VA, SC5-3VA, SC5-4WS, SC5-5WS, SC5-6WS, SC5-7WS, SC5-8WS, SC5-9WS, SC5-11PW, SC5-13ES, SC5-14LW
	6	Assessment:
	7	Mid Term test, Research and Poster presentation, Extracting information from Video and other sources.
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