

2022 Year 10-1 Science Scope & Sequence

Science

Year:

10

Subject:

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	1	2	3	4	5	6	7	8	9	10	11
	Title / Unit: Chemical W	Title / Unit: Physical World									
	Outcomes: SC5-16CW, S										
	Content Focus: The Che										
RM 1	determined by their stru										
	Skills: planning investigations, conducting investigations, processing and analysing data and information, communicating										
Ë	Preparation skills for St										
	HPGE Additional inform										
	Assessment will have in										
	including verbs. Students will need to interpret and analyse results obtained in practical tasks.										
	Assessment: Practical a	nd Data Analysis Knowled	ge CANVAS quiz 25%								

STEM

	1	2	3	4	5	6	7	8	9	10	
	Title / Unit: Physical World	1		Title / Unit: Independent Research Project							
	Outcomes: SC5-10PW, SC5	5-11PW (PW3 PW4) SC5-5WS	5, SC5 – 6WS, SC5 – 7WS, SC5	- 9WS, SC5-1VA, SC5-2VA, S	Outcomes: SC5–4WS, SC5-5WS, SC5–6WS, SC –7WS, SC5-8WS, SC5–9WS, SC5-1VA, SC5-2VA, SC5-3VA						
	Content Focus: The Physica	al World strand is concerned	with understanding the natu	Content Focus: Students should choose investigations related to one of the topics they have studied or to an							
	within this strand are that	forces affect the motion and	behaviour of objects and that	area of interest. They should be encouraged to address problems relevant to their immediate environment							
	this strand students gain a	n understanding of how the	concepts of force, motion, m	and use readily available materials to undertake their investigation.							
2	Skills: planning investigation	ons, conducting investigation	s, processing and analysing d	Skills: planning investigations, conducting investigations, processing and analysing data and information,							
RZ	Preparation skills for Stage 6: data analysis, investigations, SST, RAP, RAW, data analysis, graphs, tables, measurements, units							communicating			
Ξ	HPGE Additional informat	ion: This topic provides the p	prerequisite knowledge need	Preparation skills for Stage 6: data analysis, investigations, ICT, communication of relevant information,							
	students' working scientifie	cally skills in preparation for	stage 6. Assessment will have	grammar, spelling, punctuation, SST, RAP, RAW, data analysis, graphs, tables, measurements							
	science course and include	exposure to data analysis, n	nultiple choice questions, sho	ort answer and extended res	HPGE Additional information: This topic provides the prerequisite skills needed for stage 6 science courses,						
	design.							especially those relating to depth studies. Practical work and investigations will develop students' working			
	Assessment: Knowledge &	data analysis and investigati	ion design 25%	scientifically skills in preparation for stage 6. Assessment will have increased rigor as students will need to							
						have variables that will lea	raph.				
				Assessment: Research Pro	ject 25%						

1 2 3 4 5 6 7 8 9 10 1											
Title / Unit: Living World											
Outcomes: SC5-14LW, SC5-15LW (LW3 LW4) SC5-5WS, SC5 – 6WS, SC5 – 7WS, SC5 – 9WS, SC5-2VA, SC5-3VA											

Content Focus: The Living World strand is concerned with understanding living things. The key concepts developed within this strand are that the cell is the basic unit of life and that there is a diverse range of living things that have evolved on Earth. Students will gain an appreciation of the interdependence of living things and how they interact with each other and the environment. Through this strand students gain an understanding of how the structure of living things relates to the functions that their body systems perform and how these features aid their survival.

Skills: conducting investigations, processing and analysing data and information, communicating

Preparation skills for Stage 6: data analysis, investigations, communication relevant information, SST, RAP, RAW, data analysis, graphs, tables, measurements, explain

Faculty:

HPGE Additional information: This topic provides the prerequisite knowledge needed for stage 6 science courses. Practical work and investigations will develop students' working scientifically skills in preparation for stage 6. Assessment will have increased rigor, exposing students to the academic requirements of a stage 6 science course and include exposure to data analysis, multiple choice questions, short answer and extended response questions including verbs.

Assessment: Yearly exam – data analysis and knowledge 25%

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TERM

	1	2	3	4	5	6	7	8	9	10	
	Title / Unit: Living World c	ontinued		Title / Unit: Space							
				Outcomes: SC5-12ES, SC5-13ES (ES1) SC5-5WS, SC5 – 6WS, SC5 – 7WS, SC5 – 9WS, SC5-1VA, SC5-2VA, SC5-3VA							
				Content Focus: The Earth and Space strand is concerned with the Earth's dynamic structure and its place in the cosmos. The key concepts developed within this strand are that the Earth is part of a							
Σ				solar system that, in turn, is part of a larger universe and that the Earth is subject to change within and on its surface, over a range of timescales, as a result of natural processes. Students explore							
Ë				the ways that humans use resources from the Earth and appreciate the influence of human activity on the surface of the Earth and the atmosphere.							
-				Skills: processing and analysing data and information							
				Preparation skills for Stage 6: data analysis, investigations, SST, RAP, RAW, data analysis, graphs, tables, measurements, units							
				HPGE Additional information: This topic provides the prerequisite knowledge needed for stage 6 science courses. Practical work and investigations will develop students' working scientifically skills							
in preparation for stage 6. A focus on data analysis, multiple choice, short answer and extended response questions will continue throughout the topic.											