

SCOPE AND SEQUENCE STATEMENT: YEAR 9 SCIENCE 2025 PLATO

<u>TERM 1</u>	1	2	3	4	5	6	7	8	9	10	11		
OVERALL TOPIC	Working Scientifically			Electricity									
OVERVIEW	Students focus on developing key skills to investigate the world scientifically. They learn how to plan and conduct safe experiments, make accurate observations, and collect and analyse data effectively.			Students extend their understanding of electrical circuits by exploring the relationship between voltage, current, and resistance, applying Ohm’s Law to analyse how these variables interact. They investigate series and parallel circuits, measure electrical quantities, and consider how energy is transferred and transformed in different electrical systems. The topic also highlights real-world applications of electricity, focusing on electrical safety and sustainable energy use. (Research how engineers employ scientific concepts in designing energy-efficient devices and buildings)									
OUTCOMES	SC5-4WS, SC5-5WS, SC5-6WS, SC5-7WS, SC5-8WS, SC5-9WS			SC5-1VA, SC5-3VA, SC5-5WS, SC5-6WS, SC5-7WS, SC5-8WS, SC5-10PW, SC5-11PW									
ASSESSMENT	AT1 Skills Task - 20% (Week 4)												
11 WEEKS 38.5 HOURS													
<u>TERM 2</u>	1	2	3	4	5	6	7	8	9				
OVERALL TOPIC	Electricity continued		All Under Control										
OVERVIEW			Students develop an understanding of how living things survive in a changing environment, with a focus on how the nervous and endocrine systems work together to maintain a stable internal state. (Describe examples of advances in science and/or emerging science and technologies in areas that involve biomedical science, and pharmaceuticals)										
OUTCOMES			SC5-1VA, SC5-2VA, SC5-3VA, SC5-7WS, SC5-8WS, SC5-9WS, SC5-14LW, SC5-15LW										
ASSESSMENT	AT2 Data Processing and Analysis - 25% (Week 3)												
9 WEEKS 31.5 HOURS													
<u>TERM 3</u>	1	2	3	4	5	6	7	8	9	10			
OVERALL TOPIC	All under control continued		Chemistry and Radioactivity										
OVERVIEW	Students develop an understanding that the characteristics of a chemical are determined by the types of atoms that make up the chemical and the type of bonding between the atoms. (Balance a range of common chemical equations)												
OUTCOMES	SC5-1VA, SC5-3VA, SC5-5WS, SC5-6WS, SC5-7WS, SC5-8WS, SC5-16CW, SC5-17CW												
ASSESSMENT	AT3 Research and Presentation - 25% (Week 2)												
Research and Presentation 10 WEEKS 35 HOURS													
<u>TERM 4</u>	1	2	3	4	5	6	7	8					
OVERALL TOPIC	continued	Earth and Space											
OVERVIEW		Students extend upon their understanding of the structure of the Earth and how it is in a constant process of change, which can have violent consequences. (outline examples where advances in science and emerging technologies have significantly changed our understanding of the universe)											
OUTCOMES	SC5-1VA, SC5-2VA, SC5-3VA, SC5-4WS, SC5-5WS, SC5-7WS, SC5-8WS, SC5-9WS, SC5-12ES, SC5-13ES												
ASSESSMENT	AT 4 Yearly Examination 30% (Week 3)												
8 WEEKS 28 HOURS													

TOTAL COURSE HOURS: 123 hours