



<b>DURATION OF SUBJECT</b>	FULL YEAR	<b>FINANCIAL COMMITMENT</b>	REFER TO PROPOSED FEE SCHEDULE
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### COURSE REQUIREMENTS

This subject is a pre-requisite for Year 11 Chemistry, Physics and Biology.

Participation in the **STUDENT RESOURCE SCHEME** provides students access to microscopes, Science Text (to be advised) and materials for classroom activities and photocopied class notes

- Glassware – beakers, test-tubes, stirring rods, measuring cylinders, watch glasses
- Bunsen burners, tripods, test racks, metal stands and clamps, spatulas, scalpels
- Electrical equipment – power packs, wiring, light boxes, probes, dissecting boards, tweezers
- Chemicals – copper sulphate, calcium carbonate, marble chips, hydrochloric acid, vinegar
- Metals – aluminium, copper, iron
- Geology materials – rock samples (igneous, metamorphic, sedimentary)
- Safety equipment – aprons and safety goggles

### COURSE CONTENT

UNIT 1	UNIT 2	UNIT 3	UNIT 4
<p><b>Biology</b></p> <p>In this unit students will explore systems at different scales and connect microscopic and macroscopic properties to explain phenomena. Students explore the biological evidence for different theories, such as the theories of natural selection. Students learn about the relationships between aspects of the living, physical and chemical world that are applied to systems on a local and global scale and this enables them to predict how changes will affect equilibrium within these systems.</p>	<p><b>Chemistry/Physics</b></p> <p>In this unit students will explore the chemical and physical evidence for different theories. Students develop their understanding of atomic theory to understand relationships within the periodic table. They learn about the relationships between aspects of the physical and chemical world that are applied to systems on a local and global scale and this enables them to predict how changes will affect equilibrium within these systems.</p>	<p><b>Prep Biology</b></p> <p>In this unit students will explore the fascinating diversity of life as it has evolved and as it interacts and functions. Students will be introduced to biological systems and their interactions, from cellular processes to ecosystem dynamics. The unit and the assessment piece is designed to prepare students for Biology in Year 11 and 12.</p>	<p><b>Prep Chemistry/Physics</b></p> <p>In this unit students will explore the fundamentals of Physics as a science that endeavours to explain all the natural phenomena that occur in the universe. In this unit students will gain an appreciation of the wonder of physics and the significant contribution physics has made to contemporary society. The unit and the assessment piece is designed to prepare students for Physics in Year 11 and 12.</p>
<b>SUMMATIVE ASSESSMENT</b>	<b>SUMMATIVE ASSESSMENT</b>	<b>SUMMATIVE ASSESSMENT</b>	<b>SUMMATIVE ASSESSMENT</b>
Research Investigation	Data Test	Student Experiment	Exam

### CAREER PATHWAYS

A course of study in Physics, Chemistry, and Biology can establish a basis for further education and employment in the fields of science, engineering, medicine and technology.

