



INCOMPATIBLE SUBJECTS	NIL	DEPENDENT SUBJECTS	Mathematical Methods or General Mathematics General English
PRE-REQUISITE SUBJECTS	Year 10 Introduction to Physics and Chemistry – B, Year 10 English – B, Year 10 Mathematics - B	POTENTIAL QCE POINTS	4
COURSE DURATION	TWO YEARS	CONTRIBUTES TO ATAR	YES
FINANCIAL COMMITMENT	REFER TO SRS & SUBJECT FEE SCHEDULE, plus individual purchase of lab coat and safety glasses	SUBJECT PATHWAY	GENERAL
COURSE REQUIREMENTS	<p>Textbook: Oxford QScience: Chemistry Units 1 & 2 and Oxford QScience: Chemistry Units 3 & 4</p> <p>Students will be required to participate in 1 X 5-hour field trip in Unit 3 in order to complete the required mandatory assessment.</p> <p>Classroom materials are provided through participation of the School Fees:</p>		
COURSE CONTENT			
<p>By the conclusion of the course of study, students will be able to describe and explain scientific concepts, theories, models and systems and their limitations. Students will analyse evidence, interpret evidence, investigate phenomena, evaluate processes, claims and conclusions and communicate understandings, findings, arguments and conclusions. In Units 3 and 4 students complete four summative assessments. The results from each of the assessments are added together to provide a subject score out of 100. Students also receive a grade from A-E via the school reporting framework.</p>			
UNIT 1		ASSESSMENT	
<p>Chemical fundamentals – structure, properties and reactions:</p> <p>Properties and structure of atoms; Properties and structure of materials; Chemical reactions – reactants, products, and energy change</p>		<p>Data Test</p> <p>Research Investigation</p>	
UNIT 2		ASSESSMENT	
<p>Molecular interactions and reactions:</p> <p>Intermolecular forces and gases; Aqueous solutions and acidity; Rates of chemical reactions</p>		<p>Student Experiment</p> <p>Exam</p>	
UNIT 3		ASSESSMENT	
<p>Equilibrium, acids and redox reactions:</p> <p>Chemical equilibrium systems; Oxidation and reduction</p>		<p>IA1 Data Test (10%)</p> <p>IA2 Research Investigation (20%)</p>	
UNIT 4		ASSESSMENT	
<p>Structure, synthesis and design:</p> <p>Properties and structure of organic materials; Chemical synthesis and design</p>		<p>IA3 Student Experiment (20%)</p> <p>Combined unit 3 & 4 External Exam (50%)</p>	
CAREER PATHWAYS			
<p>Laboratory technician, chemical plant worker, anaesthetist, agricultural scientist, geoscience technician, geneticist, geologist, forensic scientist, environmental engineer, ecologist, chemist, botanist, biochemist, medical practitioner, medical scientist, microbiologist, nutritionist, pathologist, pharmacist, toxicologist, veterinarian, wine maker, sports science.</p>			