



DURATION OF SUBJECT	FULL YEAR
FINANCIAL COMMITMENT	INCLUDED IN THE STUDENT RESOURCE SCHEME

COURSE CONTENT

UNIT 1 - CHEMISTRY	UNIT 2 - PHYSICS	UNIT 3 - EARTH SCIENCES	UNIT 4 - BIOLOGY
<p>Mix it up</p> <p>Students describe techniques to separate pure substances from mixtures.</p> <p>Students identify questions that can be investigated scientifically. They plan fair experimental methods, identifying variables to be changed and measured. They select equipment that improves fairness and accuracy and describe how they considered safety. Students draw on evidence to support their conclusions.</p>	<p>May the force be with you</p> <p>Students consider the interaction between multiple forces when explaining changes in an object's motion.</p> <p>They select equipment that improves fairness and accuracy and describe how they considered safety.</p>	<p>Space Exploration</p> <p>Students can investigate relationships in the Earth-sun-moon system and use models to predict and explain events.</p> <p>Students describe situations where scientific knowledge from different science disciplines and diverse cultures has been used to solve a real-world problem. They explain possible implications of the solution for different groups in society.</p> <p>They summarise data from different sources, describe trends and refer to the quality of their data when suggesting improvements to their methods.</p>	<p>Finding Nemo</p> <p>Students explore the diversity of life on Earth and continue to develop their understanding of the role of classification in ordering and organising information. They use and develop models such as food chains, food webs and matter through ecosystems and explore the impact of changing components within these systems.</p> <p>They communicate their ideas, methods and findings using scientific language and appropriate representations.</p>
SUMMATIVE ASSESSMENT	SUMMATIVE ASSESSMENT	SUMMATIVE ASSESSMENT	SUMMATIVE ASSESSMENT
Experimental Investigation	Examination	Investigation	Investigation

COURSE REQUIREMENTS | Contribution to the resources scheme offers student access to:

Use of –

Microscopes
Science Text (to be advised)

Materials for Classroom activities –

photocopied class notes
glassware - beakers, test-tubes, stirring rods, measuring cylinders, watch glasses
bunsen burners, tripods, test racks, metal stands and clamps, spatulas, scalpel
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, safety goggles
glassware and chemicals

CAREER PATHWAYS

Engineer, Oceanographer, Electrician, Radio Technician, Architect, Environmental Health Officer, Hydrologist, Physicist, Lab Technician, Dentist, Optometrist, Doctor, Audiologist, Agricultural Scientist, Taxidermist, Science Teacher, Metallurgist, Chemist, Forensic Scientist, Forest Ranger, Pathologist, Radiographer Bacteriologist, Dietician, Zoologist, Veterinarian, Mineralogist

