

## Science Outline: Year 7

Term	Week	Unit of Work	Key Concepts	Class Tasks and Homework	Assessments
1	1 - 7	Working Scientifically	Science is a way of investigating the universe and how it works	Safety poster	Information Processing Task
			Scientists make careful observations	Australian Scientist Research Assignment	
			Scientists design experiments to find answers	Conducting Fair Test Experiments	
			Scientists work safely	Graphing experiment data	
			Scientists make measurements	Scientific report writing	
	8 - 11	Cells	Cells are the basic units of living things	How to use a microscope	3D Model of a Cell
			Most cells have specialised structures and functions	Observing and drawing cells	
			Scientists study cells using microscopes	Preparation of microscope slides	
			Constructing a model cell		
2	1 - 3	Classification	There are differences within and between groups of organisms; classification helps organise this diversity	iScience p 45 Leaf classification iScience AB p 54	Midyear Written Task
	4 - 8	Matter	The properties of the different states of matter can be explained in terms of the motion and arrangement of particles.		Practical Exam
3	1 - 3	Mixtures	Mixtures, including solutions, contain a combination of pure substances that can be separated using a range of techniques		
	4 - 7	Our Solar System	Scientific knowledge changes as new evidence becomes available. Some technological developments and scientific discoveries have significantly changed people's understanding of the solar system		
	8 - 10	Rocks	Sedimentary, igneous and metamorphic rocks contain minerals and are formed by processes that occur within Earth over a variety of timescales.		

4	1 - 2	Forces	<p>Changes to an object's motion is caused by unbalanced forces acting on an object.</p> <p>The action of forces that act at a distance may be observed and related to everyday situations</p>		
	3 - 4	Heat Energy	<p>Energy appears in different forms including heat. Heat can move by conduction, convection and radiation</p>		
		Skills	<p>Students collaboratively and individually produce plans to investigate questions and problems.</p> <p>Students follow a sequence of instructions to safely undertake a range of investigation types.</p> <p>Students present science ideas, findings and information to a given audience using appropriate language, text types and representations.</p>		