Western Adelaide Region Planning Guide to the Australian Curriculum: Science 1.2 v6 August 2011 Yearly Plan: Year 3										
	General Capabilities: 📽 Literacy 🖩 Numeracy 🛎 ICT competence 🌾 Critical and creative thinking 🥵 Ethical behaviour 谢 Personal and social competence 🖤 Intercultural understanding									
Cross Curriculum Perspectives Aboriginal and Torres Strait Islander histories and cultures, ASIA Asia and Australia's engagement with Asia, SUST Sustainability										
	Science Content Strands: The 3 strands ar strands Science Inquiry Skills & Science as a H	e interrelated and their content is taught in an integrat <i>luman Endeavour</i> are described across a 2-year band	ed way. The	Achievement standard - E	By the end of Year 3:					
Learn?	 The order and detail in which the content descriptions are organised into teaching/learning programs are decisions to by the teacher. Over Years 3 to 6: Students develop their understanding of a range of systems operating at different time and geographic scales. In Year 3 Students: observe heat and its effects on solids and liquids and begin to develop an understanding of energy flows to simple systems. In observing day and night, they develop an appreciation of regular and predictable cycles. order their observations by grouping and classifying; in classifying things as living or non-living they begin recognise that classifications are not always easy to define or apply. begin to quantify their observations to enable comparison, and learn more sophisticated ways of identifying 			 describe how they can use science investigations to respond to questions identify where people use science knowledge in their lives. collect and present data in a way that helps to answer their questions use their experiences to make predictions. 						
em to L	representing relationships, including the u	ise of tables and graphs to identify trends. etween components of simple systems to make predictions.								
tt	BIOLOGICAL SCIENCES	EARTH & SPACE SCIENCES	Cł	IEMICAL SCIENCES	PHYSICAL SCIENCES					
What do I want them to	Living things can be grouped on the basis of observable features and can be distinguished from non-living things	Earth's rotation on its axis causes regular changes, including night and day	be caused by	ate between solid and liquid can adding or removing heat	Heat can be produced in many ways and can move from one object to another					
	Students will be: • recognising characteristics of living things such as growing, moving, sensitivity and reproducing	 Students will be: recognising the sun as a source of light constructing sundials and investigating how they work 	 Students will be: investigating how liquids and solids respond to changes in temperature, for example water changing to ice, or melting chocolate 		 Students will be: describing how heat can be produced such as through friction or motion, electricity or chemically (burning) 					
	 recognising the range of different living things 	describing timescales for the rotation of the Earth	liqu	loring how changes from solid to id and liquid to solid can help us ycle materials	 identifying changes that occur in everyday situations due to heating and cooling 					
	 sorting living and non-living things based on characteristics 	 modelling the relative sizes and movement of the sun, Earth and moon predicting the effect of heat on different materials 								
	exploring differences between living, once living and products of living things	bring differences between living,			 recognising that we can feel heat and measure its effects using a thermometer 					
	Primary Connections Unit Feathers, Fur or Leaves	Primary Connections Unit Spinning in Space	Prin	nary Connections Unit Runny or Not	Primary Connections Units Heat					

What do I want them to learn? (Science Understanding) (Review for balance and coverage of content descriptors)							
YEAR 3 SCIENCE	SCIENCE UNDERSTANDING						
Content Description	Elaborations			Т3	T 4		
Biological sciences							
Living things can be grouped on the basis of observable features and can be distinguished from non-living things	 recognising characteristics of living things such as growing, moving, sensitivity and reproducing recognising the range of different living things sorting living and non-living things based on characteristics exploring differences between living, once living and products of living things 						
Chemical sciences					-		
A change of state between solid and liquid can be caused by adding or removing heat	 investigating how liquids and solids respond to changes in temperature, for example water changing to ice, or melting chocolate exploring how changes from solid to liquid and liquid to solid can help us recycle materials predicting the effect of heat on different materials 						
Earth and space sciences							
Earth's rotation on its axis causes regular changes, including night and day	 recognising the sun as a source of light constructing sundials and investigating how they work describing timescales for the rotation of the Earth modelling the relative sizes and movement of the sun, Earth and moon 						
Physical sciences							
Heat can be produced in many ways and can move from one object to another	 describing how heat can be produced such as through friction or motion, electricity or chemically (burning) identifying changes that occur in everyday situations due to heating and cooling exploring how heat can be transferred through conduction recognising that we can feel heat and measure its effects using a thermometer 						

What do I want them to learn? (Science as a Human Endeavour) (Review for balance and coverage of content descriptors)								
YEAR 3 SCIENCE	SCIENCE AS A HUMAN ENDEAVOUR							
Content Description	Content Description Elaborations		Earth/ Space	Chemistry	Physics			
Nature and development of science								
Science involves making predictions and describing patterns and relationships	 making predictions about change and events in our environment researching how knowledge of astronomy has been used by some Aboriginal and Torres Strait Islander people considering how posing questions helps us plan for the future 							
Use and influence of science								
Science knowledge helps people to understand the effect of their actions	 considering how heating affects materials used in everyday life investigating how science helps people such as nurses, doctors, dentists, mechanics and gardeners considering how materials including solids and liquids affect the environment in different ways deciding what characteristics make a material a pollutant researching Aboriginal and Torres Strait Islander people's knowledge of the local natural environment, such as the characteristics of plants and animals 							

What do I want them to learn? (Science Inquiry Skills) (Review for balance and coverage of content descriptors)							
YEAR 3 SCIENCE SCIENCE INQUIRY SKILLS							
Content Description	Elaborations		Earth/ Space	hemistry	Physics		
Questioning and predicting							
With guidance, identify questions in familiar contexts that can be investigated scientifically and predict what might happen based on prior knowledge	 choosing questions to investigate from a list of possibilities provided by the teacher considering familiar situations in order to think of possible areas for investigation working in groups to discuss things that might happen during an investigation 						
Planning and conducting		-		_			
Suggest ways to plan and conduct investigations to find answers to questions	 working in groups, with teacher guidance, to test simple cause-and-effect relationships carrying out class surveys to identify trends With guidance, identify questions in familiar contexts that can be investigated scientifically and predict what might happen based on prior knowledge choosing questions to investigate from a list of possibilities provided by the teacher considering familiar situations in order to think of possible areas for investigation working in groups to discuss things that might happen during an investigation patterns in data and patterns in data 						
Safely use appropriate materials, tools or equipment to make and record observations, using formal measurements and digital technologies as appropriate	 considering safety rules for equipment used recording measurements using familiar formal units and appropriate abbreviations, such as seconds (s), grams (g), centimetres (cm) using a digital camera to record observations 						
Processing and analysing data and information	on second se						
Use a range of methods including tables and simple column graphs to represent data and to identify patterns and trends	 using tables to organise materials and objects based on observable properties identifying and discussing numerical and visual patterns in data collected from students' own investigations and from secondary sources 						
Compare results with predictions, suggesting possible reasons for findings	 discussing how well predictions matched results from an investigation and sharing ideas about what was learnt 						
Evaluating							
Reflect on the investigation, including whether a test was fair or not	describing experiences of carrying out investigations to the teacher, small group or whole class						
Communicating							
Represent and communicate ideas and findings in a variety of ways such as diagrams, physical representations and simple reports	 Communicating with other students carrying out similar investigations to share experiences and improve investigation skills using simple explanations and arguments, reports or graphical representations to communicate ideas to other students 						