

ZOETROPE

Year Level	SCIENCE	TECHNOLOGY	ENGINEERING	ARTS (LITERACY)	ARTS (MEDIA)	MATHS
PREP	<p>Science Understanding:</p> <p>Chemical sciences Objects are made of materials that have observable properties (ACSSU003)</p> <p>Physical sciences The way objects move depends on a variety of factors, including their size and shape (ACSSU005)</p> <p>Nature and development of science Science involves observing, asking questions about, and describing changes in, objects and events (ACSHE013)</p> <p>Science Inquiry Skills</p> <p>Questioning and predicting</p>	<p>Explore the characteristics and properties of materials and components that are used to produce designed solution (ACTDEK004)</p>	<p>Identify how people design and produce familiar products, services and environments and consider sustainability to meet personal and local community needs (ACTDEK001)</p> <p>Explore how technologies use forces to create movement in products (ACTDEK002)</p>	<p>Creating literature Retell familiar literary texts through performance, use of illustrations and images (ACELT1580)</p>	<p>Use and experiment with different materials, techniques, technologies and processes to make artworks (ACAVAM107)</p> <p>Create and display artworks to communicate ideas to an audience (ACAVAM108)</p> <p>Use media technologies to capture and edit images, sounds and text for a purpose (ACAMA055)</p> <p>Create and present media artworks that communicate ideas and stories to an audience (ACAMAM056)</p>	<p>Shape Sort, describe and name familiar two-dimensional shapes and three-dimensional objects in the environment (ACMG009)</p> <p>Location and transformation Describe position and movement (ACMMG010)</p>

	<p>Pose and respond to questions about familiar objects and events (AC SIS014)</p> <p>Planning and conducting Participate in guided investigations and make observations using the senses (AC SIS011)</p> <p>Processing and analysing data and information Engage in discussions about observations and represent ideas (AC SIS233)</p> <p>Communicating: Share observations and ideas (AC SIS012)</p>					
YEAR ONE	<p>Physical sciences Light and sound are produced by a range of sources and can be sensed (AC SSU020)</p> <p>Science as a Human Endeavour</p> <p>Nature and development of science</p>	<p>Explore the characteristics and properties of materials and components that are used to produce designed solution (ACTDEK004)</p>	<p>Knowledge and Understanding</p> <p>Identify how people design and produce familiar products, services and environments and consider sustainability to meet personal and local</p>	<p>Creating literature Recreate texts imaginatively using drawing, writing, performance and digital forms of communication (ACEL T1586)</p>	<p>Use and experiment with different materials, techniques, technologies and processes to make artworks (ACAVAM107)</p> <p>Create and display artworks to communicate ideas to</p>	<p>Shape Recognise and classify familiar two-dimensional shapes and three-dimensional objects using obvious features (ACMMGO22)</p>

<p>Science involves observing, asking questions about, and describing changes in, objects and events (ACSHE021 - Scootle)</p> <p>Use and influence of science People use science in their daily lives, including when caring for their environment and living things (ACSHE022 - Scootle)</p> <p>Science Inquiry Skills</p> <p>Questioning and predicting Pose and respond to questions, and make predictions about familiar objects and events (ACSIS024)</p> <p>Planning and conducting Participate in guided investigations to explore and answer questions (ACSIS025)</p>		<p>community needs (ACTDEK001)</p> <p>Explore how technologies use forces to create movement in products (ACTDEK002)</p>		<p>an audience (ACAVAM108).</p> <p>Use media technologies to capture and edit images, sounds and text for a purpose (ACAMAM055)</p> <p>Create and present media artworks that communicate ideas and stories to an audience (ACAMAM056)</p>	
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	<p>Processing and analysing data and information Use a range of methods to sort information, including drawings and provided tables and through discussion, compare observations with predictions (AC SIS027)</p> <p>Evaluating Compare observations with those of others (AC SIS213 - Scootle)</p> <p>Communicating Represent and communicate observations and ideas in a variety of ways (AC SIS029)</p>					
YEA R TW O	<p>Physical sciences A push or a pull affects how an object moves or changes shape (ACSSU033) Science as a Human Endeavour</p> <p>Nature and development of science</p>	Explore the characteristics and properties of materials and components that are used to produce designed solution (ACTDEK004)			Use and experiment with different materials, techniques, technologies and processes to make artworks (ACAVAM107) Create and display artworks to communicate ideas	

Science involves observing, asking questions about, and describing changes in, objects and events ([ACSHE034](#))

Science Inquiry Skills

Questioning and predicting

Pose and respond to questions, and make predictions about familiar objects and events ([AC SIS037](#))

Planning and conducting

Participate in guided investigations to explore and answer questions ([AC SIS038 - Scootle](#))

Use informal measurements to collect and record observations, using digital technologies as appropriate ([AC SIS039](#))

Processing and analysing data and information

Use a range of methods to sort information, including drawings and provided tables and

to an audience ([ACAV AM108](#))

Use media technologies to capture and edit images, sounds and text for a purpose ([ACAMA M055](#))

Create and present media artworks that communicate ideas and stories to an audience ([ACA MAM056](#))

	<p>through discussion, compare observations with predictions (AC SIS040)</p> <p>Evaluating</p> <p>Compare observations with those of others (AC SIS041)</p> <p>Communicating</p> <p>Represent and communicate observations and ideas in a variety of ways (AC SIS042)</p>					
<p>YEA R THR EE</p>		<p>Critique needs or opportunities for designing and explore and test a variety of materials, components, tools and equipment and the techniques needed to produce designed solution(ACTDEP014)</p> <p>Generate, develop, and communicate design ideas and decisions using appropriate technical terms and graphical representation techniques (ACTDEP015)</p> <p>Select and use materials, components, tools, equipment and techniques and use safe work practices to make</p>		<p>Creating literature</p> <p>Create imaginative texts based on characters, settings and events from students' own and other cultures using visual features, for example perspective, distance and angle (ACELT1601)</p>	<p>Use materials, techniques and processes to explore visual conventions when making artworks (ACAVAM11)</p> <p>Present artworks and describe how they have used visual conventions to represent their ideas (ACAVAM112)</p> <p>Investigate and devise representations of people in their community, including</p>	<p>Shape</p> <p>Make models of three-dimensional objects and describe key features (ACMMG063)</p>

		<p>designed solutions (ACTDEP016)</p> <p>Evaluate design ideas, processes and solutions based on criteria for success developed with guidance and including care for the environment (ACTDEP017)</p> <p>Plan a sequence of production steps when making designed solutions individually and collaboratively(ACTDEP018)</p>			<p>themselves, through settings, ideas and story structure in images, sounds and text (ACAMAM058)</p> <p>Use media technologies to create time and space through the manipulation of images, sounds and text to tell stories (ACAMAM059)</p>	
YEAR FOUR		<p>Critique needs or opportunities for designing and explore and test a variety of materials, components, tools and equipment and the techniques needed to produce designed solution(ACTDEP014)</p> <p>Generate, develop, and communicate design ideas and decisions using appropriate technical terms and graphical representation techniques (ACTDEP015)</p> <p>Select and use materials, components,</p>		<p>Plan, rehearse and deliver presentations incorporating learned content and taking into account the particular purposes and audiences (ACELY1689)</p>	<p>Use materials, techniques and processes to explore visual conventions when making artworks (ACAVAM111)</p> <p>Present artworks and describe how they have used visual conventions to represent their ideas (ACAVAM112)</p>	<p>Geometric reasoning</p> <p>Compare angles and classify them as equal to, greater than, or less than, a right angle (ACM MG089)</p>

		<p>tools, equipment and techniques and use safe work practices to make designed solutions (ACTDEP016)</p> <p>Evaluate design ideas, processes and solutions based on criteria for success developed with guidance and including care for the environment (ACTDEP017)</p> <p>Plan a sequence of production steps when making designed solutions individually and collaboratively(ACTDEP018)</p>				
YEAR FIVE		<p>Examine how people in design and technologies occupations address competing considerations, including sustainability in the design of products, services, and environments for current and future use(ACTDEK019)</p> <p>Investigate how electrical energy can control movement, sound or light in a designed product or system (ACTDEK020)</p>		<p>Interacting with others Plan, rehearse and deliver presentations for defined audiences and purposes incorporating accurate and sequenced content and multimodal elements (ACELY1700)</p> <p>Creating texts Plan, draft and publish imaginative, informative and persuasive print and</p>		<p>Geometric reasoning Estimate, measure and compare angles using degrees. Construct angles using a protractor (ACM MG112)</p> <p>Data representation and interpretation Pose questions and collect categorical or numerical data by</p>

		<p>Critique needs or opportunities for designing, and investigate materials, components, tools, equipment and processes to achieve intended designed solutions (ACTDEP024)</p> <p>Select appropriate materials, components, tools, equipment and techniques and apply safe procedures to make designed solutions (ACTDEP026)</p>		<p>multimodal texts, choosing text structures, language features, images and sound appropriate to purpose and audience(ACELY1704)</p>		<p>observation or survey (ACMSP118)</p>
YEA R SIX		<p>Examine how people in design and technologies occupations address competing considerations, including sustainability in the design of products, services, and environments for current and future use(ACTDEK019) Investigate how electrical energy can control movement, sound or light in a designed product or system (ACTDEK020)</p> <p>Critique needs or opportunities for designing, and investigate</p>				<p>Solve problems involving the comparison of lengths and areas using appropriate units (ACMMG137)</p> <p>Location and transformation Investigate combinations of translations, reflections and rotations, with and without the use of digital technologies (ACMMG142)</p>

		<p>materials, components, tools, equipment and processes to achieve intended designed solutions (ACTDEP024)</p> <p>Select appropriate materials, components, tools, equipment and techniques and apply safe procedures to make designed solutions (ACTDEP026)</p>				<p>Geometric reasoning</p> <p>Investigate, with and without digital technologies, angles on a straight line, angles at a point and vertically opposite angles. Use results to find unknown angles (ACMMG141)</p>	
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