- Australia - Digital Technolo Design and Tec															
Grade 2	Lesson Name	Descriptor	Compose a Song	Light and Shadow	Build It Up, Break It Down	Interactive Story	Design a Habitat	Smart Lighting System	Earthquake Alert	Reduce, Reuse, Recycle	Seed Dispersal	Time's Up	Smart Safe	Changing Landscape	Erosion
0.000 2	Lesson Number		1	2	3	4	5	6	7	8	9	10	11	12	13
Design and Technologies	Knowledge and Understanding ACTDEK001	Identify how people design and produce familiar products, services and environments and consider sustainability to meet personal and local community needs			~			~	Y	Y		Y			
	ACTDEK002	Explore how technologies use forces to create movement in products			~										\checkmark
	ACTDEK003	Explore how plants and animals are grown for food, clothing and shelter and how food is selected and prepared for healthy eating													
	ACTDEK004	Explore the characteristics and properties of materials and components that are used to produce designed solutions			>							>			
T Pu	Processes and Production Skills	Explore needs or opportunities for													
Design ar	ACTDEP005	designing, and the technologies needed to realise designed solutions Generate, develop and record							V	~		✓	✓	~	
	ACTDEP006	design ideas through describing, drawing and modelling			\checkmark		~		~					~	
	ACTDEP007	Use materials, components, tools, equipment and techniques to safely make designed solutions		~	~	~	~	~		~	~	~	~	~	V
	ACTDEP008	Use personal preferences to evaluate the success of design ideas, processes and solutions including their care for environment													
	ACTDEP009	Sequence steps for making designed solutions and working collaboratively	~	~	~	~	~	V	~	~	~	~	~	~	V
	Knowledge and Understanding														
Digital Technologies	ACTDIK001	Recognise and explore digital systems (hardware and software components) for a purpose	~	V	V	V	~	V	~	~		~	~	~	V
	ACTDIK002	Recognise and explore patterns in data and represent data as pictures, symbols and diagrams	~												
	Processes and Production Skills	Collect, explore and sort data, and													
	ACTDIP003	use digital systems to present the data creatively Follow, describe and represent a													
	ACTDIP004	sequence of steps and decisions (algorithms) needed to solve simple problems	V	V	V	V	V		~	V	~	V	V	~	V
	ACTDIP005	Explore how people safely use common information systems to meet information, communication and recreation needs													
	ACTDIP006	Create and organise ideas and information using information systems independently and with others, and share these with known people in safe online environments													
	Skills														
	ST1-1WS-S	observes, questions and collects data to communicate and compare ideas													
	ST1-2DP-T	uses materials, tools and equipment to develop solutions for a need or opportunity	~		~	~	~	~	~	~		~	~	~	V
	ST1-3DP-T	describes, follows and represents algorithms to solve problems	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	$\overline{\mathbf{v}}$	~	$\overline{\mathbf{Z}}$	~	~
	ST2-1WS-S	questions, plans and conducts scientific investigations, collects and summarises data and communicates using scientific representations													
	ST2-2DP-T	selects and uses materials, tools and equipment to develop solutions for a need or opportunity	~		V		~	V	~	~		~	~	~	V
	ST2-3DP-T	defines problems, describes and follows algorithms to develop solutions	~		~	~	~	V	~	V	~	~	~	~	V

NSW Science and Technologies

Knowledge and understanding													
ST1-4LW-S	describes observable features of					~							
ST1-5LW-T	living things and their environments identifies how plants and animals				_			П		П	П	_	П
	are used for food and fibre products identifies that materials can be							_			 		
ST1-6MW-S	changed or combined												
ST1-7MW-T	describes how the properties of materials determine their use			~				>	N				
ST1-8PW-S	describes common forms of energy and explores some characteristics of sound energy	>						>			~		
ST1-9PW-ST	investigates how forces and energy are used in products			\checkmark				~					
ST1-10ES-S	recognises observable changes occurring in the sky and on the land and identifies Earth's resources											>	
ST1-11DI-T	identifies the components of digital systems and explores how data is represented												
ST2-4LW-S	compares features and characteristics of living and non- living things												
ST2-5LW-T	describes how agricultural processes are used to grow plants and raise animals for food, clothing and shelter												
ST2-6MW-S	describes how adding or removing heat causes a change of state												
ST2-7MW-T	investigates the suitability of natural and processed materials for a range of purposes								>				
ST2-8PW-ST	describes the characteristics and effects of common forms of energy, such as light and heat		V			>	>				~	~	V
ST2-9PW-ST	describes how contact and non- contact forces affect an object's motion												
ST2-10ES-S	investigates regular changes caused by interactions between the Earth and the Sun, and changes to the Earth's surface					~						~	V
ST2-11DI-T	describes how digital systems represent and transmit data												