- Australia - Digital Techno Design and Te												
Grade 5	Lesson Name	Descriptor	Monkey Ecosystem	Water Cycle	The Sun's Energy	Plant Life	Solar Power	Shadow Theater	Rocket	Seasonal Stars	Mixing Substances	Passcode
Glade 5	Lesson Number		1	2	3	4	5	6	7	8	9	10
	Knowledge and Understanding			2	5	-	5	0	,	0	5	10
mologies	ACTDEK019	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										
	ACTDEK020	Investigate how electrical energy can control movement, sound or light in a designed product or system	\checkmark	\checkmark	~	\checkmark	\checkmark	~	~	\checkmark		
	ACTDEK021	Investigate how and why food and fibre are produced in managed environments and prepared to enable people to grow and be healthy										
	ACTDEK023	Investigate characteristics and properties of a range of materials, systems, components, tools and equipment and evaluate the impact of their use										
lect	Processes and Production Skills											
Design and Technologies	ACTDEP024	Critique needs or opportunities for designing, and investigate materials, components, tools, equipment and processes to achieve intended designed solutions										
	ACTDEP025	Generate, develop and communicate design ideas and processes for audiences using appropriate technical terms and graphical representation techniques										
	ACTDEP026	Select appropriate materials, components, tools, equipment and techniques and apply safe procedures to make designed solutions	V	>	>	>	>	>	>	V	>	
	ACTDEP027	Negotiate criteria for success that include sustainability to evaluate design ideas, processes and solutions										
	ACTDEP028	Develop project plans that include consideration of resources when making designed solutions individually and collaboratively	\checkmark	V	V	V	V	~	V	V	>	
Technologies	Kanada dan sandi ku ku ku ku											
	Knowledge and Understanding	Examine the main components of common digital systems and how they may connect together to form networks to transmit data										
	ACTDIK015	Examine how whole numbers are used to represent all data in digital systems										
	Processes and Production Skills											
	ACTDIP016	Acquire, store and validate different types of data, and use a range of software to interpret and visualise data to create information										
	ACTDIP017	Define problems in terms of data and functional requirements drawing on previously solved problems										
	ACTDIP018	Design a user interface for a digital system		\checkmark	\checkmark			\checkmark		\checkmark	\checkmark	

Digital	ACTDIP019	Design, modify and follow simple algorithms involving sequences of steps, branching, and iteration (repetition)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	V
	ACTDIP020	Implement digital solutions as simple visual programs involving branching, iteration (repetition), and user input	\checkmark			\checkmark	$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$					V
	ACTDIP021	Explain how student solutions and existing information systems are sustainable and meet current and future local community needs										
	ACTDIP022	Plan, create and communicate ideas and information, including collaboratively online, applying agreed ethical, social and technical protocols										
	Skills	plans and conducts scientific										1
	ST3-1WS-S	investigations to answer testable questions, and collects and summarises data to communicate conclusions										
	ST3-2DP-T	plans and uses materials, tools and equipment to develop solutions for a need or opportunity	\checkmark	\checkmark	\checkmark	\checkmark	V	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
	ST3-3DP-T	defines problems, and designs, modifies and follows algorithms to develop solutions	\checkmark	~	~		\mathbf{k}	\checkmark	\checkmark	V	\mathbf{k}	V
gies	Knowledge and understanding											
chnolog	ST3-4LW-S	examines how the environment affects the growth, survival and adaptation of living things	\checkmark			\checkmark						
and Te	ST3-5LW-T	explains how food and fibre are produced sustainably in managed environments for health and nutrition										
NSW Science and Technologies	ST3-6MW-S	explains the effect of heat on the properties and behaviour of materials										
MSN	ST3-7MW-T	explains how the properties of materials determines their use for a range of purposes										
	ST3-8PW-ST	explains how energy is transformed from one form to another			\checkmark	\checkmark	\checkmark					
	ST3-9PW-ST	investigates the effects of increasing or decreasing the strength of a specific contact or non-contact force										
	ST3-10ES-S	explains regular events in the solar system and geological events on the Earth's surface										
	ST3-11DI-T	explains how digital systems represent data, connect together to form networks and transmit data										