Content Descriptions

Australian Curriculum Level 3-4	Western Australian Year 4 Syllabus
Digital systems	**Digital systems**
Identify and explore a range of digital systems with peripheral devices for different purposes, and transmit different types of data (ACTDIK007)	Digital systems and peripheral devices are used for different purposes and can store and transmit different types of data (ACTDIK007)
Representation of data	**Representation of data**
Recognise different types of data and explore how the same data can be represented in different ways (ACTDIK008)	Data can be represented in different ways (ACTDIK008)
Collecting, managing and analysing data	**Collecting, managing and analysing data**
Collect, access and present different types of data using simple software to create information and solve problems (ACTDIP009)	Collect and present different types of data for a specific purpose using software (ACTDIP009)
Investigating and defining	**Investigating and defining**
Define simple problems, and describe and follow a sequence of steps and decisions (algorithms) needed to solve them (ACTDIP010)	Define a sequence of steps to design a solution for a given task (WATPPS21) Identify and choose the appropriate resources from a given set (WATPPS22)
Generating and designing	**Designing**
	Develop and communicate design ideas and decisions using annotated drawings and appropriate technical terms (WATPPS23)
Producing and implementing	**Producing and implementing**
Implement simple digital solutions as visual programs with algorithms involving branching (decisions) and user input (ACTDIP011)	Select, and safely use, appropriate components and equipment to make solutions (WATPPS24)
	Digital implementation
	Use simple visual programming environments that include a sequence of steps (algorithm) involving decisions made by the user (branching) (ACTDIP011)
Evaluating	**Evaluating**
Explain how student solutions and existing information systems meet common personal, school or community needs (ACTDIP012)	Use criteria to evaluate and justify simple design processes and solutions (WATPPS25)
Collaborating and managing	**Collaborating and managing**
Plan, create and communicate ideas and information independently and with others, applying agreed ethical and social protocols (ACTDIP013)	Work independently, or collaboratively when required, to plan, create and communicate ideas and information for solutions (WATPPS26)
	Digital implementation
	Create and communicate ideas and information safely (ACTDIP013)

Achievement Standards

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By the end of Year 4, students describe how a range of digital systems (hardware and software) and their peripheral devices can be used for different purposes. They explain how the same data sets can be represented in different ways. Students define simple problems, design and implement digital solutions using algorithms that involve decision-making and user input. They explain how the solutions meet their purposes. They collect and manipulate different data when creating information and digital solutions. They safely use and manage information systems for identified needs using agreed protocols and describe how information systems are used.	At Standard, students identify different purposes for digital systems and peripheral devices, recognising they can store and transmit a variety of data. They use simple visual programming, including a sequence of steps (algorithms) and branching, students represent data in a range of ways. They create and communicate ideas and information and use software to collect and represent different types of data, using agreed protocols (netiquette). In Digital Technologies, students use algorithms (sequenced steps) to design a solution for a given digital task. They identify and choose the appropriate resources from a given set. Students develop and communicate design ideas and decisions, using annotated drawings and appropriate technical terms. They select and safely use appropriate components and equipment to make solutions. Students use criteria to evaluate and justify simple design processes and solutions for a given digital task. They work independently, or collaboratively, to plan, safely create and communicate ideas and information for solutions.