

### Content Descriptions and Outcomes

Australian Curriculum Levels 3-4	New South Wales Stage 2
<b>Knowledge and Understanding</b> <b>Digital Systems</b>	<b>Knowledge and understanding</b>
Identify and explore a range of digital systems with peripheral devices for different purposes, and transmit different types of data (ACTDIK007)	describes how digital systems represent and transmit data (ST2-11DI-T)
<b>Representation of Data</b>	<b>Working Scientifically Skills Continuum</b> <b>Processing and analyzing data</b>
Recognise different types of data and explore how the same data can be represented in different ways (ACTDIK008)	use a range of methods to represent data, including tables and column graphs
<b>Collecting, managing and analysing data</b>	<b>Design and Production Skills Continuum</b> <b>Producing and implementing</b>
Collect, access and present different types of data using simple software to create information and solve problems (ACTDIP009)	collect, access and present data, using software to present and communicate information and solve problems (ACTDIP009)
<b>Investigating and defining</b>	<b>Skills</b>
Define simple problems, and describe and follow a sequence of steps and decisions (algorithms) needed to solve them (ACTDIP010)	defines problems, describes and follows algorithms to develop solutions (ST2-3DP-T)
	<b>Design and Production Skills Continuum</b> <b>Identifying and defining</b>
	develop a sequence of steps and decisions (algorithms) to solve a problem (ACTDIP010)
<b>Generating and Designing</b>	
<b>Producing and Implementing</b>	<b>Design and Production Skills Continuum</b> <b>Producing and implementing</b>
Implement simple digital solutions as visual programs with algorithms involving branching (decisions) and user input (ACTDIP011)	generate visual programs using algorithms to create simple digital solutions
<b>Evaluating</b>	<b>Design and Production Skills Continuum</b> <b>Testing and evaluating</b>
Explain how student solutions and existing information systems meet common personal, school or community needs (ACTDIP012)	explain how existing information systems meet personal, school or community needs (ACTDIP012)
<b>Collaborating and managing</b>	<b>Working Scientifically Skills Continuum</b> <b>Planning and conducting investigations</b>
Plan, create and communicate ideas and information independently and with others, applying agreed ethical and social protocols (ACTDIP013)	participate individually and collaboratively with clear roles and goals
	<b>Design and Production Skills Continuum</b> <b>Producing and implementing</b>
	organise and perform strategic roles within a group to solve a problem

### Achievement Standards

#### Australian Curriculum Levels 3-4

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.

### Stage Statements

#### New South Wales Stage 2

By the end of Stage 2...  
Students organise and identify patterns in data and create tables to organise and represent information.

They describe how digital systems transmit data, explore different types of data and how data patterns can be represented and interpreted.

***\*For the purpose of this document, any NSW Syllabus Objectives and Outcomes, Continuum or Stage Statements that do not directly align to the Australian Digital Technologies Curriculum have been removed.***