## AUSTRALIAN CURRICULUM & NSW SYLLABUS

Levels 5-6 & Stage 3



Objectives and Outcomes   New South Wales Stage 3   Skills   Explains how digital systems represent data, connect together to form networks and transmit data (ST3-11DI-T)   Design and Production Skills Continuum Producing and implementing
Skills Explains how digital systems represent data, connect together to form networks and transmit data (ST3-11DI-T) Design and Production Skills Continuum
together to form networks and transmit data (ST3-11DI-T) Design and Production Skills Continuum
acquire, store, access and validate different types of data, and use a range of software to present, interpret and visualise data (ACTDIP016)
Design and Production Skills Continuum Identifying and defining
examine and critique needs, opportunities or modification using a range of criteria to define a project define a need or opportunity according to functional and aesthetic criteria consider availability and sustainability of resources when defining design needs and opportunities examine and determine functional requirements to define a problem identify data required to formulate algorithms to improve a process (ACTDIP017) <b>Design and Production Skills Continuum</b> <b>Research and planning</b> research, identify and define design ideas and processes for an audience consider functional and aesthetic needs in planning a design solution develop, record and communicate design ideas, decisions and processes using appropriate technical terms
Skills defines problems, and designs, modifies and follows
algorithms to develop solutions (ST3-3DP-T) Design and Production Continuum
Design and Production Continuum   Research and planning   design, modify and follow simple algorithms   extend sequences of steps to provide a series of possibilities   through branching   develop solutions through trialling and refining using   iterations (ACTDIP019)   Design and Production Skills

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ICT Educators – Australian Digital Technologies Curriculum Mapping – National vs NSW

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	Producing and implementing
Implement digital solutions as simple visual programs involving branching, iteration (repetition), and user input (ACTDIP020)	implement digital solutions as visual programs involving branching, iteration and user input (ACTDIP020) identify, organise and perform strategic roles within a group to solve a problem
Evaluating	Design and Productions Skills Continuum Testing and evaluating
Explain how student solutions and existing information systems are sustainable and meet current and future local community needs (ACTDIP021)	negotiate criteria for success, based on defined needs, sustainability and aesthetics develop appropriate and fair processes to test a designed solution according to criteria explain how students' solutions and existing information systems meet current and future local community needs (ACTDIP021)
Collaborating and managing	Design and Production Skills Continuum Producing and implementing
Plan, create and communicate ideas and information, including collaboratively online, applying agreed ethical, social (ACTDIP022)	work collaboratively to share, appraise and improve ideas to achieve design purposes

## **Achievement Standards Stage Statements** Australian Curriculum Levels 5-6 New South Wales Key Stage 3 By the end of Year 6, students explain the fundamentals of By the end of Stage 3... digital system components (hardware, software and They pose questions for investigation, predict likely networks) and how digital systems are connected to form outcomes, and demonstrate accuracy and honesty when networks. They explain how digital systems use whole collecting, recording and analysing data and information. numbers as a basis for representing a variety of data They construct tables and graphs to organise data and are types. Students define problems in terms of data and able to identify patterns, using evidence to compare with functional requirements and design solutions by developing predictions, draw conclusions and develop explanations. algorithms to address the problems. They incorporate They communicate their ideas in tables, graphs, diagrams decision-making, repetition and user interface design into and multimodal texts, using digital technologies where their designs and implement their digital solutions, including applicable. a visual program. They explain how information systems and their solutions meet needs and consider sustainability. Students collect, store and interpret different types of data Students manage the creation and communication of ideas and explain how digital systems connect to form networks and information in collaborative digital projects using that transmit data. They define problems, and design, validated data and agreed protocols. modify and follow simple algorithms that involve branching, iteration and user input.

\*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.