CloudCraft Futures: Curriculum Alignment

How the 10-week unit maps to NSW syllabuses across three tracks. For the full scope and sequence, weekly lesson plans and assessment tasks, apply for a funded place and receive the complete materials pack.

Why three tracks, not two

The original program grouped Stage 4 and 5 together under Computing Technology 7 to 10. That syllabus is an elective. Not every Year 7 to 10 student takes it.

Every Year 7 and 8 student studies Technology 7 to 8, which became the live syllabus from 2026. That is the genuinely mandatory, largest possible audience for the Stage 4 band.

The three tracks let schools pick the alignment that matches what they actually teach:

- **Track A: Stage 3 (Years 5 to 6), Science and Technology K to 6**
- **Track B: Stage 4 (Years 7 to 8, every student), Technology 7 to 8**
- **Track C: Stage 5 (Years 9 to 10 elective), Computing Technology 7 to 10**

A school running CloudCraft through a mandatory Year 7 class needs Track B codes. A school running it through the Years 9 to 10 Computing Technology elective needs Track C codes.

TRACK A

Stage 3 (Years 5 to 6)

Science and Technology K to 6 (2017), Digital Technologies strand

Current syllabus for 2026. The 2024 replacement does not start until 2027, so 2017 codes are correct for this Term 4.

Outcome code	Description
ST3-1WS-S	Plans and conducts scientific 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, including designing, modifying and following simple algorithms
ST3-3DP-T	Defines problems, and designs, modifies and follows algorithms to develop solutions, including implementing digital solutions as visual programs involving branching, iteration and user input
ST3-11DI-T	Explains how digital systems represent data, connect together to form networks and transmit data

General capabilities: Information and Communication Technology Capability, Critical and Creative Thinking, Numeracy (data weeks).

Weeks 1 to 10. Datacentres, jobs and networks (weeks 1 to 3), data safety and sustainability (weeks 4 to 5), data collection and datacentre careers (weeks 6 to 8), design challenge and showcase (weeks 9 to 10).

TRACK B

Stage 4 (Years 7 to 8, all students)

Technology 7 to 8 (2023), Digital and communication technologies focus area

Live syllabus from 2026, replacing Technology Mandatory 7 to 8 (2017). Every Year 7 and 8 student studies this regardless of electives.

Outcome code	Description
TE4-DIG-01	Demonstrates technological literacy to safely interact in digital environments
TE4-DIG-02	Uses data and digital systems to code, design and produce projects
TE4-DES-01	Communicates and evaluates design ideas and solutions
TE4-PPM-01	Applies processes in the planning, management and production of projects
TE4-SAF-01	Selects and safely uses tools, materials, technologies and processes
TE4-SDP-01	Explains relationships between sustainability, design and production

General capabilities: ICT Capability, Critical and Creative Thinking, Personal and Social Capability (project and collaboration weeks), Ethical Understanding (data safety weeks).

Weeks 1 to 10. Datacentre systems, networks and authentication (weeks 1 to 4), design thinking and project planning (weeks 5 to 6), sustainability, build and evaluation (weeks 7 to 9), careers showcase (week 10).

TRACK C

Stage 5 (Years 9 to 10 electives)

Computing Technology 7 to 10 (2022)

Elective syllabus. Can also serve Stage 4 elective classes, since teachers may adjust Stage 5 outcomes for Year 7 to 8 students under CT4-ADJ-01.

Outcome code	Description
CT5-SAF-01	Selects and applies safe, secure and responsible practices in the ethical use of data and computing technology
CT5-DPM-01	Applies iterative processes to define problems and plan, design, develop and evaluate computing solutions
CT5-THI-01	Applies computational, design and systems thinking to the development of computing solutions
CT5-DAT-01	Explains how data is stored, transmitted and secured in digital systems
CT5-DAT-02	Acquires, represents, analyses and visualises simple and structured data
CT5-OPL-01	Designs, produces and evaluates algorithms and implements them in a programming language
CT5-EVL-01	Understands how innovation, enterprise and automation have inspired the evolution of computing technology
CT5-DES-01	Designs and creates user interfaces and user experience
CT5-COL-01	Manages, documents and explains individual and collaborative work practices
CT5-COM-01	Communicates ideas, processes and solutions using appropriate media

General capabilities: ICT Capability, Critical and Creative Thinking, Ethical Understanding, Personal and Social Capability.

Weeks 1 to 10. Systems thinking and data (weeks 1 to 3), algorithms, simulation and visualisation (weeks 4 to 6), iterative design and UX (weeks 7 to 8), documentation and industry showcase (weeks 9 to 10).