

Instruction: List the title of the unit of work in the first column and then tick the check box of the content description/s addressed by it, which can be done electronically. Once completed, fill out the 'Assessments' table. For detailed notes regarding the purpose of this template and further instructions for completion, refer [here](#)

Strand	Digital Systems	Data and Information										Creating Digital Solutions									
		Content Description		Content Description		Content Description		Content Description		Content Description		Content Description		Content Description		Content Description		Content Description			
Sequence of Lessons / Unit	Semester/ Year	CD	Achievement standard #	CD	Achievement standard #	CD	Achievement standard #	CD	Achievement standard #	CD	Achievement standard #	CD	Achievement standard #	CD	Achievement standard #	CD	Achievement standard #	CD	Achievement standard #	CD	Achievement standard #
Computer networks	Year 7 / Semester 1	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Data storage	Year 7 / Semester 1	<input type="checkbox"/>		<input checked="" type="checkbox"/>	2	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Data visualisations	Year 7 / Semester 1	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	4	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Requirements and user experiences	Year 7 / Semester 2	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	5	<input checked="" type="checkbox"/>	6	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Algorithms	Year 7 / Semester 2	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	6	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Programming	Year 7 / Semester 2	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	6	<input type="checkbox"/>		<input type="checkbox"/>	
Product evaluation	Year 7 / Semester 2	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	7	<input type="checkbox"/>	

Year and Semester

Units of work

Matching units of work against content descriptions and achievement standards

Levels 5 and 6 Achievement Standard	Levels 7 and 8 Achievement Standard	Levels 9 and 10 Achievement Standard
<p>By the end of Level 6</p> <ul style="list-style-type: none"> Students explain the functions of digital system components and how digital systems are connected to form networks that transmit data. Students explain how digital systems use whole numbers as a basis for representing a variety of data types. They manage the creation and communication of ideas, information and digital projects collaboratively using validated data and agreed protocols. Students define problems in terms of data and functional requirements and design solutions by developing algorithms to address the problems. They incorporate decision-making, repetition and user interface design into their designs and develop their digital solutions, including a visual program. Students explain how information systems and their developed solutions meet current and future needs taking sustainability into account. 	<p>Separated by line. Number in brackets, e.g. (3), can be used as an identifier in various parts of the template.</p> <p>By the end of Level 8</p> <ul style="list-style-type: none"> Students distinguish between different types of networks and their suitability in meeting defined purposes. (1) Students explain how text, image and sound data can be represented and secured in digital systems and presented using digital systems. (2) They analyse and evaluate data from a range of sources to model solutions and create information. (3) They manage the collaborative creation of interactive ideas, information and projects and use appropriate codes of conduct when communicating online. (4) Students define and decompose problems in terms of functional requirements and constraints. (5) They design user experiences and algorithms incorporating branching and iterations, and develop, test, and modify digital solutions. (6) Students evaluate information systems and their solutions in terms of meeting needs, innovation and sustainability. (7) 	<p>By the end of Level 10</p> <ul style="list-style-type: none"> Students explain the control and management of networked digital systems and the data security implications of the interaction between hardware, software and users. Students explain simple data compression, and why content data are separated from presentation. They take account of privacy and security requirements when selecting and validating data and use digital systems to analyse, visualise and model salient aspects of data. Students share and collaborate online, establishing protocols for the legal and safe use, transmission and maintenance of data and projects. Students define and decompose complex problems in terms of functional and non-functional requirements. They design and evaluate user experiences and algorithms, and develop and test modular programs, including an object-oriented program. Students evaluate their solutions and information systems in terms of risk, sustainability and potential for innovation.

Links to achievement standards

Level 7 Assessments		
Unit (Title)	Assessment	Achievement Standard/s
Computer networks	Report: Comparison of network types and purposes.	1
Data storage	Exercises and a test.	2
Data visualisations	Research task and report.	3, 4

Level 8 Assessments		
Unit (Title)	Assessment	Achievement Standard/s
Requirements and user experiences	Folio: Requirements and user experiences.	5, 6
Algorithms	Folio: Flowcharts and pseudocode.	6
Programming	Folio: Submission of programs and evidence of working robot tasks.	6
Product evaluation	Web report: Evaluation of programming solution and working robot task.	7

Units of work

Type and details relating to assessment

The achievement standards met for each unit of work

Units of work

Type and details relating to assessment

The achievement standards met for each unit of work