

# NCEA Achievement Standards

## Digital Technologies & Hangarau Matihiko

Digital Technologies & Hangarau Matihiko			Hangarau Matihiko	
Computational Thinking (CT) Designing and Developing Digital Outcomes (DDDO)			Te Tangata me te Rorohiko Ngā Ariā o Ngā Whanaketanga Hangarau Matihiko Arareo Māori	
3	3.1 (AS91900) Conduct a critical enquiry to propose a digital technologies outcome (6)	3.5 (AS91904) Use complex techniques to develop an electronics outcome (6)	3.11 Te whakahāngai i te reo o te hangarau matihiko (3) (Ext)  3.12 Te tātari i ngā tikanga o te kiriraraunga matihiko Māori (4)	
	3.2 (AS91901) Apply user experience methodologies to develop a design for a digital technologies outcome (3)	3.6 (AS91905) Use complex techniques to develop a network (4)		3.9 (AS91907) Analyse an area of computer science (3) (External)
	3.3 (AS91902) Use complex techniques to develop a database (4)	3.7 (AS91906) Use complex programming techniques to develop a computer program (6)		3.10 (AS91909) Present a reflective analysis of developing a digital outcome (3) (External)
	3.4 (AS91903) Use complex techniques to develop a digital media outcome (4)	3.8 (AS91907) Use complex processes to develop a digital technologies outcome (6)		
2	2.1 (AS91890) Conduct an inquiry to propose a digital technologies outcome (6)	2.5 (AS91894) Use advanced techniques to develop an electronics outcome (6)	2.11 Te whakaatu mōhiotanga ki te reo motuhake o te hangarau matihiko (3)  2.12 Te whakamārama i te pānga o te kiriraraunga matihiko Māori ki tētahi otinga hangarau matihiko (4)	
	2.2 (AS91891) Apply conventions to develop a design for a digital technologies outcome (3)	2.6 (AS91895) Use advanced techniques to develop a network (4)		2.9 (AS91898) Demonstrate understanding of a key aspect of a computer science concept (3) (External)
	2.3 (AS91892) Use advanced techniques to develop a database (4)	2.7 (AS91896) Use advanced programming techniques to develop a computer program (6)		2.10 (AS91899) Present a summary of developing a digital outcome (3) (External)
	2.4 (AS91893) Use advanced techniques to develop a digital media outcome (4)	2.8 (AS91897) Use advanced processes to develop a digital technologies outcome (6)		
1	1.1 (AS91877) Develop a proposal for a digital outcome (3)	1.6 (AS91882) Develop a computer system (4)  1.7 (AS91883) Develop a computer program (4)  1.8 (AS91884) Use basic iterative processes to plan and develop a digital outcome (6)  1.9 (AS91885) Demonstrate understanding of searching and sorting algorithms (3)	1.12 Te whakaatu mōhiotanga ki te reo hangarau matihiko (3)  1.13 Te whakaahua i te pānga o tētahi otinga hangarau matihiko ki te ao Māori. (4)	
	1.2 (AS91878) Develop a design for a digital outcome (3)			1.10 (AS91886) Demonstrate understanding of human computer interaction (3) (External)
	1.3 (AS91879) Develop an outcome to manage data (4)			1.11 (AS91887) Demonstrate understanding of compression coding for a chosen media type (3) (External)
	1.4 (AS91880) Develop a digital media outcome (4)			
	1.5 (AS91881) Develop an electronics outcome (6)			