

3

QUALIFY FOR THE FUTURE WORLD KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

COMMON ASSESSMENT TASK

Level 3 Digital Technologies and Hangarau Matihiko, 2019

91908 Analyse an area of computer science

Credits: Three

Achievement Criteria				
Achievement	Achievement with Merit	Achievement with Excellence		
Analyse an area of computer science.	Analyse, in depth, an area of computer science.	Critically analyse an area of computer science.		

Type your School Code and 9-digit National Student Number (NSN) into the header at the top of this page. (If your NSN has 10 digits, omit the leading zero.)

Answer all parts of the assessment task in this document.

Your answer should be presented in 12pt Arial font, within the expanding text boxes, and may only include information you produce during this examination session.

You should aim to write between 800-1500 words in total.

Save your finished work as a PDF file with the file name used in the header at the top of this page ("SchoolCode-YourNSN-91908.pdf").

By saving your work at the end of the examination, you are declaring that this work is your own. NZQA may sample your work to ensure that this is the case.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

INSTRUCTIONS

Read all parts of the assessment task before you begin.

Select ONE of the following computer science areas:

- complexity and tractability
- computer vision
- big data
- computer graphics
- formal languages
- network-communication protocols.

ype your chosen computer science	area in the s	space below		
po you. checon computer colonies				
egin your answers on page 3.				

ASSESSMENT TASK

Explain the r	elevant algorithm	s or mechanism	s that support y	our chosen co	mputer scien	ce are

Explain how your couport your answer	hosen computer science area is used, implemented or occurs. Use examples er.

computer science		iples to support	Jour answer.	

(g)	What conclusions can you draw about your chosen computer science area? In your answer, you could:
	explore less-obvious implications
	justify predictions that you make
	consider potential improvements
	suggest innovative and imaginative wider uses.