## Assessment Schedule - 2015

## Technology: Demonstrate understanding of basic concepts from computer science (91074)

Final grades will be decided using professional judgement based on a holistic examination of the evidence provided against the criteria.

## **Issues from the Specifications**

Where a candidate has provided a brief report, the report should not be penalised because of length.

Candidate work in excess of 10 pages must not be marked.

Where a candidate has used a small font, markers should make a judgement about where to stop marking. This judgement should be made relative to 10 pages of Arial 12-point font.

Where work is illegible, it cannot be marked.

Digital submissions that cannot be read cannot be marked.

Ashisasanana Ashisasanana atautah Maria Ashisasana atautah Maria		
Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of	Demonstrate in-depth	Demonstrate comprehensive
basic concepts from computer science involves:	understanding of basic concepts	understanding of basic concepts
	from computer science involves:	from computer science involves:
describing the key characteristics	explaining how algorithms are	comparing and contrasting the
and roles of algorithms, programs and informal instructions	distinct from related concepts	concepts of algorithms, programs, and informal instructions
and informal instructions	such as programs and informal instructions	and informal instructions
describing an algorithm for a task,		determining and comparing the
showing understanding of the	showing understanding of the	costs of two different iterative
kinds of steps that can be in an	way steps in an algorithm for a	algorithms for the same problem of
algorithm, and determining the	task can be combined in	size n
cost of an algorithm for a problem	sequential, conditional, and	
of a particular size	iterative structures and	comparing and contrasting high
describing the role and	determining the cost of an iterative algorithm for a problem	level and low level (or machine) languages, and explaining
characteristics of programming	of size n	different ways in which programs
languages, including the different	01 3120 11	in a high level programming
roles and characteristics of high	explaining how the	language are translated into a
level languages and low level (or	characteristics of programming	machine language
machine) languages, and the	languages, including the	
function of a compiler	different characteristics of high	discussing how different factors of
	level and low level (or machine)	a user interface contribute to its
describing the role of a user interface and factors that	languages, are important for their roles	usability by comparing and
contribute to its usability.	their roles	contrasting related interfaces.
Contribute to its usability.	explaining the need for programs	
	to translate between high and	
	low level languages	
	explaining how different factors	
	of a user interface contribute to	
	its usability.	

## Appendix 1

Markers must exercise professional judgement to decide if a report demonstrates understanding. The following appendix provides guidance for markers making this judgement.

A report must use information to demonstrate understanding.

panel leader using the Irregular Booklet process.

Reports described wholly or substantially by one or more of the statements in the left column demonstrate understanding.

Reports described wholly, or substantially, by one or more of the statements in the right column do not demonstrate understanding.

Where the report is made up of both used and reproduced information, the marker must decide if the report is successful against the standard when the reproduced information is ignored.

Evidence of <b>use</b> of information	Evidence of <b>reproduction</b> of information	
Candidate's report describes and explains the candidate's use, in their practice, of information relating to the standard.	Information is presented in isolation from the candidate's Technological experiences. It offers nothing or little to suggest the information is related	
Information from the candidate's practice, research, the practice of others, and teaching is related to the candidate's technological experiences.  The report describes experiences you would expect to come from a course of instruction derived from The Technology Learning area the NZC.  These could include but are not limited to  testing and trialling within a modelling process developing a conceptual statement developing a conceptual design development of a brief material selection refinement of a brief development of a prototype development of a one-off solution. Further examples may be added.	to a course of instruction at level 6.	
Information from research, the practice of others, or teaching is reported in the candidate's own voice.	Information is NOT in the candidate's voice. The word choice, sentence structure, sentence length, punctuation and so on are not what a candidate could be expected to produce.	
Referenced, complex research information unchanged by paraphrase is related to other information in a manner that unambiguously constructs meaning. (very rare)	Unreferenced, complex, research information is presented as though it is the candidate's own work.	
Where the marker suspects a report is a deliberate attempt to deceive the report should be referred to the		