



Colloquium with Eisenhower Fellow

Wellington, June 8, 2016

Let's talk about school leavers.

Year 9 of 2007... Where are they now?

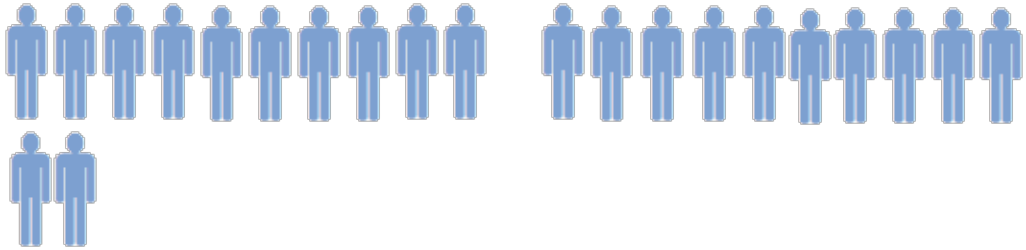
2009: left after Y11



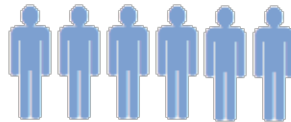
2010: left after Y12



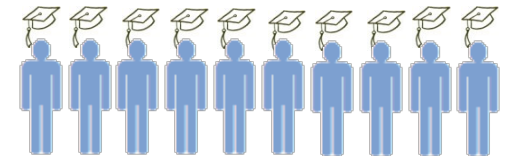
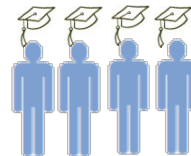
2011: left after Y13



enrolled in degrees 2012



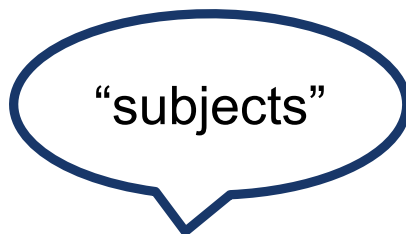
bachelors degrees by 2017



3 out of 10 go to university... **10** out of 10 go to work.

"Employers, education providers, and youth live in parallel universes... they have fundamentally different understandings of the same situation."

– *Education to Employment: Designing A System That Works* McKinsey 2012

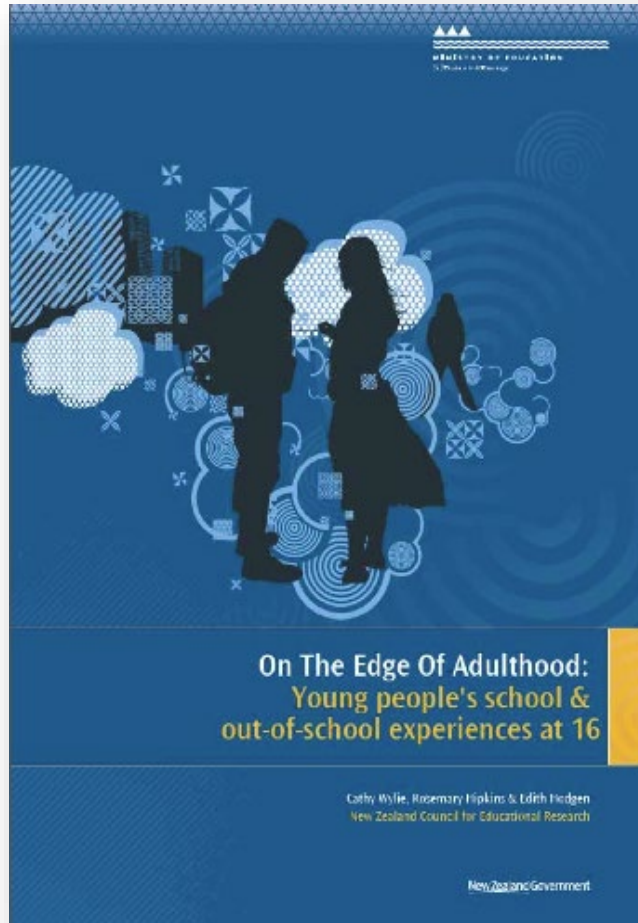


Let's talk about the National Certificate of Educational Achievement.

The best thing about NCEA is its flexibility.
The worst thing about NCEA is its flexibility.

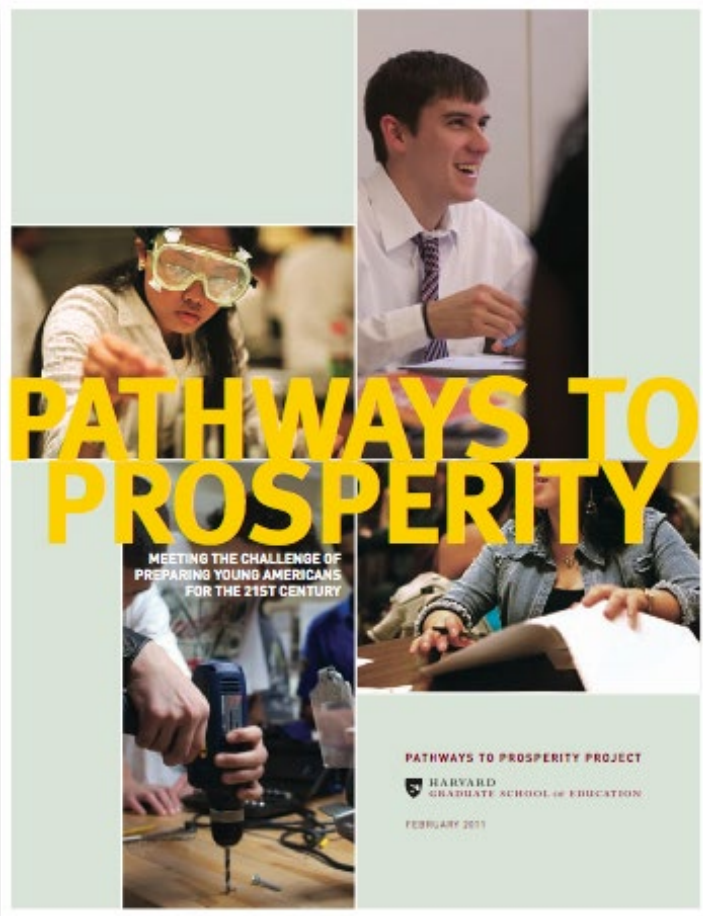


National Certificate of Educational Achievement



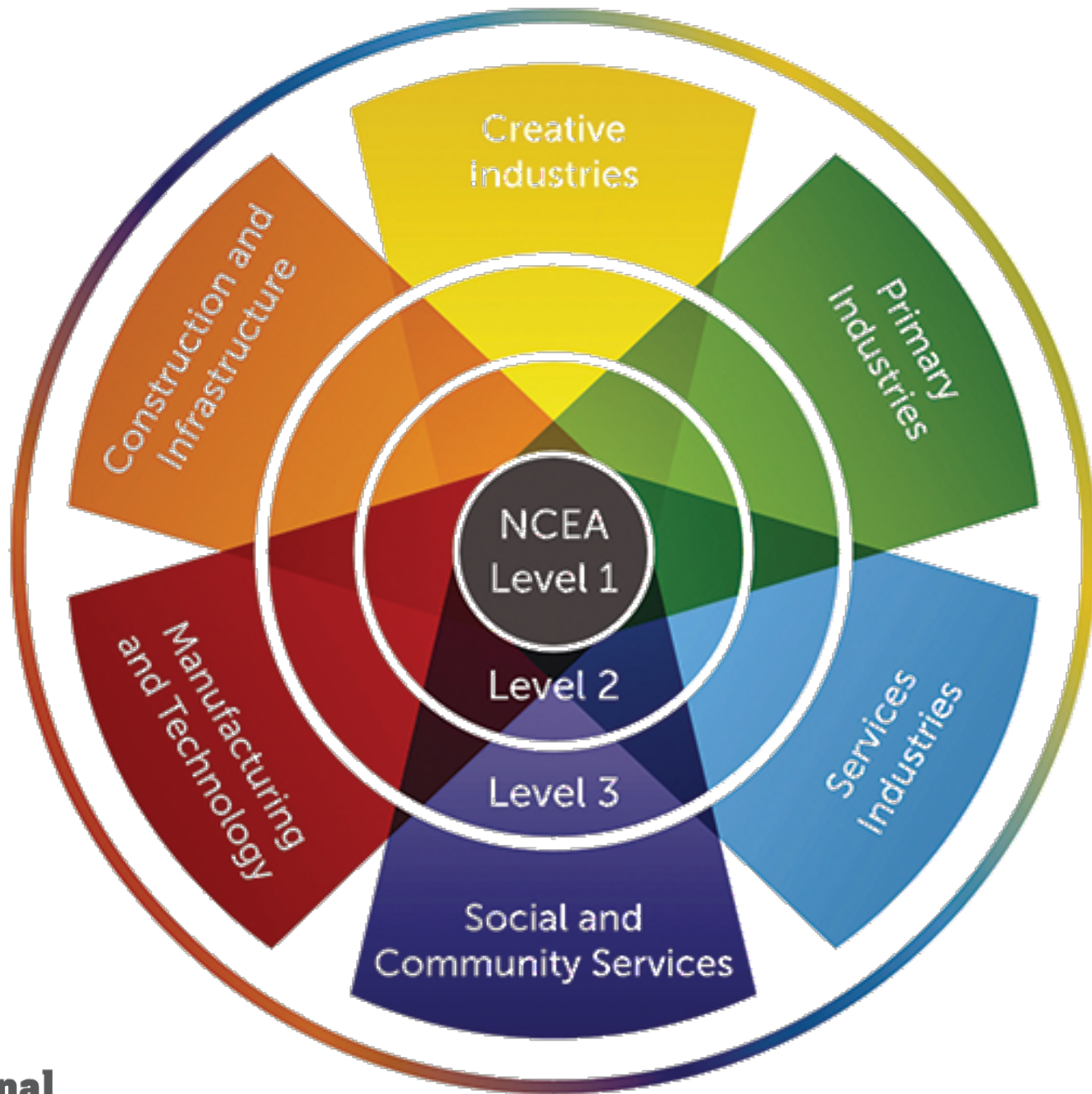
“A specific intention of the NCEA was to open up **multiple pathways** through the senior secondary school, providing more flexibility in the subject combinations available to students with different learning needs and different beyond-school pathways in mind.”

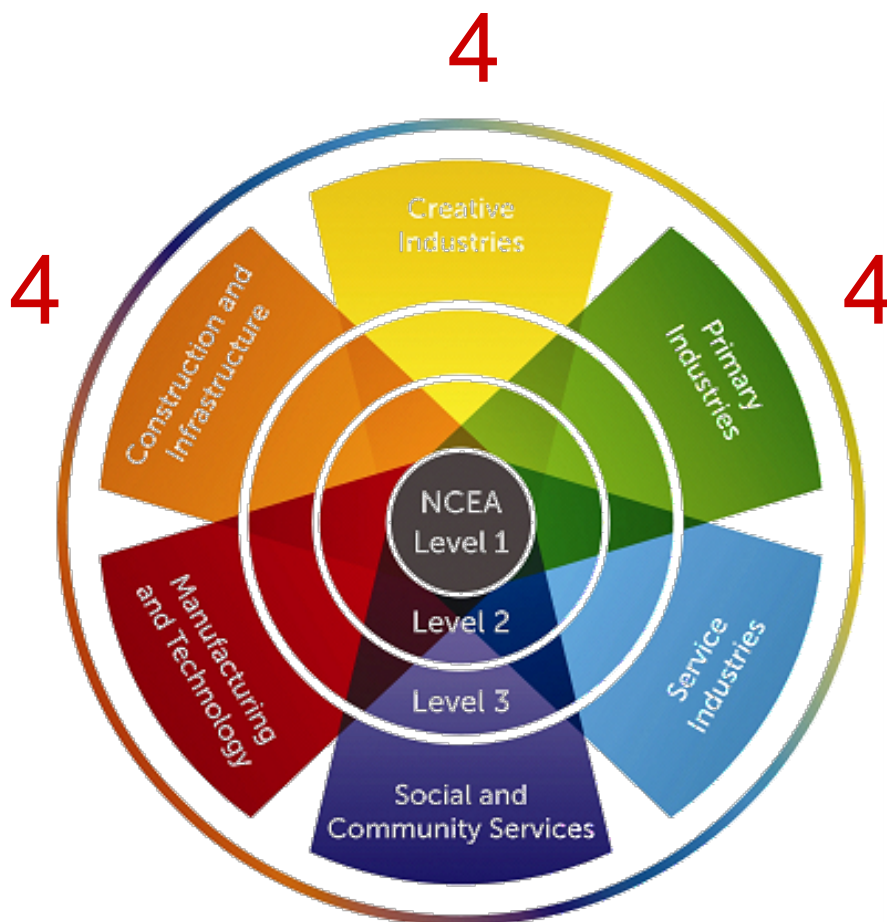
Transitions



“It is long past time that we broaden the range of high quality pathways that we offer to our young people, beginning in high school. The lessons from other countries strongly suggests that this might be the single most promising strategy for increasing the percentage of young adults who earn a post-secondary degree or credential that prepares them to embark on a meaningful career.”

Pathways to Prosperity, Harvard University, Feb 2011





Achievement Standard

Subject Reference	Chemistry 1.5				
Title	Demonstrate understanding of aspects of chemical reactions				
Level	1	Credits	4	Assessment	External
Subfield	Science				
Domain	Chemistry				
Status	Registered	Status date	30 November 2010		
Planned review date	31 December 2014	Date version published	17 December 2010		

This achievement standard involves demonstrating understanding of aspects of chemical reactions.

Mutual exclusion exists between this standard and AS90947.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Demonstrate understanding of aspects of chemical reactions. 	<ul style="list-style-type: none"> Demonstrate in-depth understanding of aspects of chemical reactions. 	<ul style="list-style-type: none"> Demonstrate comprehensive understanding of aspects of chemical reactions.

Explanatory Notes

Version 1 of this achievement standard was republished to correct an error in the exchange/precipitation reactions in explanatory note 5.

- This achievement standard is derived from *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, Level 6. It is aligned with the Material World strand, and is related to the material in the *Teaching and Learning Guide for Chemistry*, Ministry of Education, 2010 at <http://seniorsecondary.tki.org.nz>.
- Demonstrate understanding typically involves describing, identifying, naming, drawing, giving an account of, and classifying chemical reactions. This typically requires the use of chemistry vocabulary, symbols and conventions (including names and formulae), and completing word equations.



Achievement Standard

Subject Reference Mathematics and Statistics 1.5
Title Apply measurement in solving problems
Level 1 **Credits** 3 **Assessment** Internal
Subfield Mathematics
Domain Measurement
Status Registered **Status date** 9 December 2010
Planned review date 31 December 2014 **Date version published** 9 December 2010

This achievement standard involves applying measurement in solving problems.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Apply measurement in solving problems. 	<ul style="list-style-type: none"> Apply measurement, using relational thinking, in solving problems. 	<ul style="list-style-type: none"> Apply measurement, using extended abstract thinking, in solving problems.

Explanatory Notes

- This achievement standard is derived from Level 6 of *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, and is related to the material in the *Teaching and Learning Guide for Mathematics and Statistics*, Ministry of Education, 2010 at <http://seniorsecondary.tki.org.nz>. The following achievement objectives taken from the Measurement thread of the Mathematics and Statistics learning area are related to this standard:
 - convert between metric units, using decimals
 - deduce and use formulae to find the perimeters and areas of polygons, and volumes of prisms
 - find the perimeters and areas of circles and composite shapes and the volumes of prisms, including cylinders
 - apply the relationships between units in the metric system, including the units for measuring different attributes and derived measures
 - calculate volumes, including prisms, pyramids, cones, and spheres, using formulae.



5

Number AS90924

Version 1

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Achievement Standard

Subject Reference Agricultural and Horticultural Science 1.10

Title Demonstrate knowledge of horticultural plant management practices and related plant physiology

Level 1 **Credits** 5 **Assessment** External

Subfield Science

Domain Agricultural and Horticultural Science

Status Registered **Status date** 17 December 2010

Planned review date 31 December 2014 **Date version published** 17 December 2010

This achievement standard involves demonstrating knowledge of horticultural plant management practices and related plant physiology.

Achievement Criteria

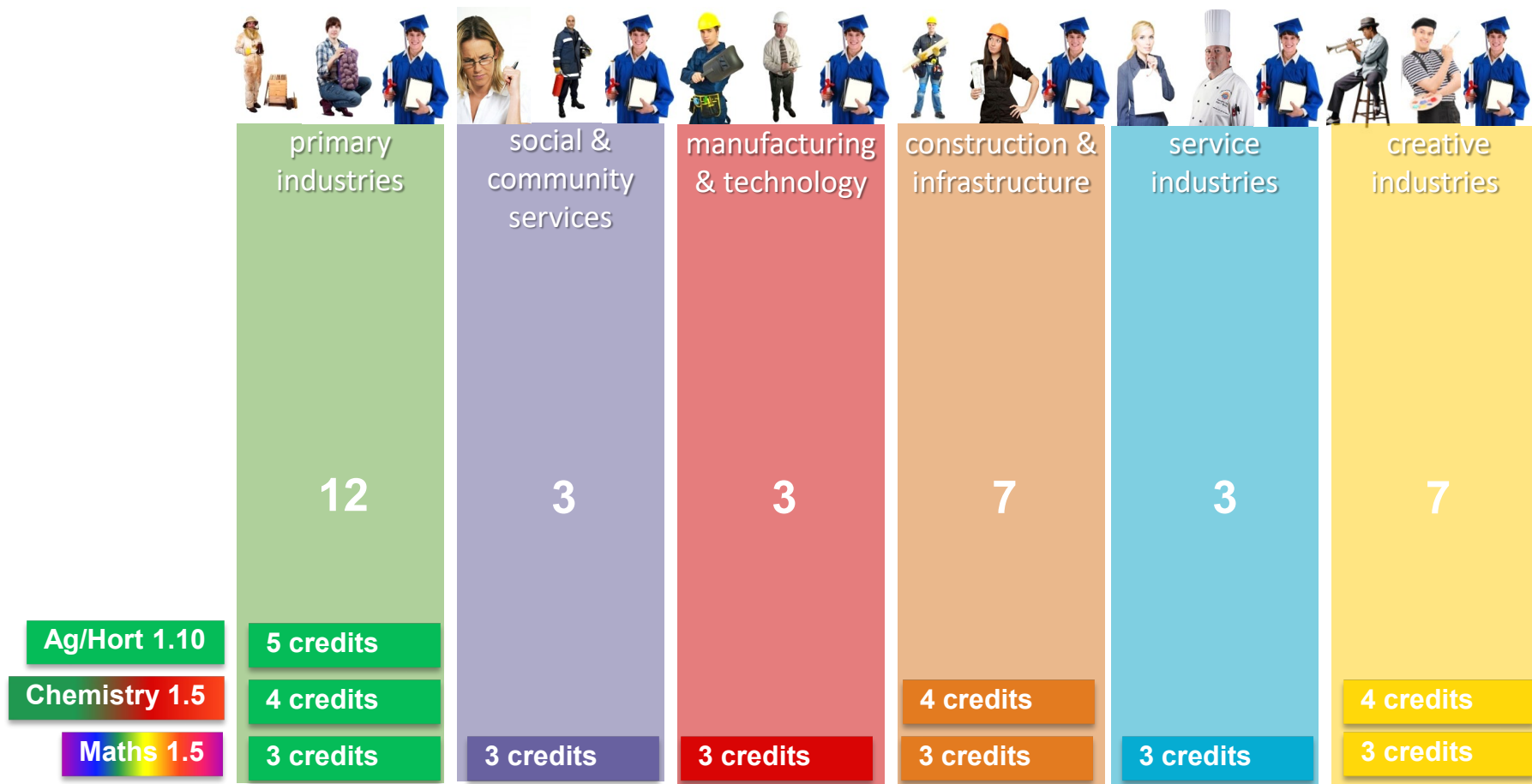
Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Demonstrate knowledge of horticultural plant management practices and related plant physiology. 	<ul style="list-style-type: none"> Demonstrate in-depth knowledge of horticultural plant management practices and related plant physiology. 	<ul style="list-style-type: none"> Demonstrate comprehensive knowledge of horticultural plant management practices and related plant physiology.

Explanatory Notes

- This achievement standard is derived from *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, and based on the outcomes in the *Teaching and Learning Guide for Agricultural and Horticultural Science*, Ministry of Education, 2010 at <http://seniorsecondary.tki.org.nz/>.
- Demonstrate knowledge* involves describing horticultural plant management practices and related plant physiology and/or growing conditions.

Demonstrate in-depth knowledge involves explaining why horticultural plant management practices or steps within practices are carried out.

Demonstrate comprehensive knowledge involves applying knowledge of horticultural plant management practices to given situations. This may involve comparing and contrasting or justifying management practices.
- Horticultural plant management practices* are actions carried out by the grower to enhance production. These may include cultivation, training (staking, thinning,



National Qualifications Framework
ANNUAL RESULT NOTICE

NZQA
NEW ZEALAND QUALIFICATIONS AUTHORITY
TAIARA TORU HIRAKAUNGA O AOTIAROA

Andrew Steven Learner
Address 1
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Address 3
Address 4 Post Code

NSN: 101101004
Academic Year: 2007
Issued: January 2008

Qualification and Achievement Summary for 2007

Qualification Achieved
National Certificate of Educational Achievement - Level 1 achieved with merit 010005
National Certificate of Educational Achievement - Level 2 010006
New Zealand University Entrance 010008

Standards Achieved in 2007

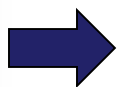
Where the result achieved is the best possible result for that standard the result will be shown in bold type.

	A - Achieved	M - Achieved with Merit	E - Achieved with Excellence	N - Not Achieved (Int) - Internally Assessed	Credits
BIOLOGY					
Level 3					
9920	4				A
9923	3				A
99713	5				M
99714	3				A
99718					N
99717	2				E
99719	3				A
99719	3				M
Total credits achieved in 2008 in Biology at Level 3: 23					
CHEMISTRY					
Level 3					
9344	5				A
9345	4				A
9346	2				A
9346	4				A
9350	2				A
9669F	2				E
9669F	3				M
9669T					N
9669E	4				M
9669E	3				A
96700	5				A
Total credits achieved in 2008 in Chemistry at Level 3: 34					
Level 2					
9947	3				A
99396	4				M
Total credits achieved in 2008 in Chemistry at Level 2: 7					
CORE HEALTH					
Level 2					
6401	1				A
Total credits achieved in 2008 in Core Health at Level 2: 1					
Level 1					
6402	1				A
Total credits achieved in 2008 in Core Health at Level 1: 1					

Issued: January 2008

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New Zealand Qualifications Authority PO Box 160, Wellington 611, Tekepeone 64 4 463 3035, www.nzqa.govt.nz



Overview

[More about Vocational Pathways](#)

To get Vocational Pathways awarded, you also need to achieve:



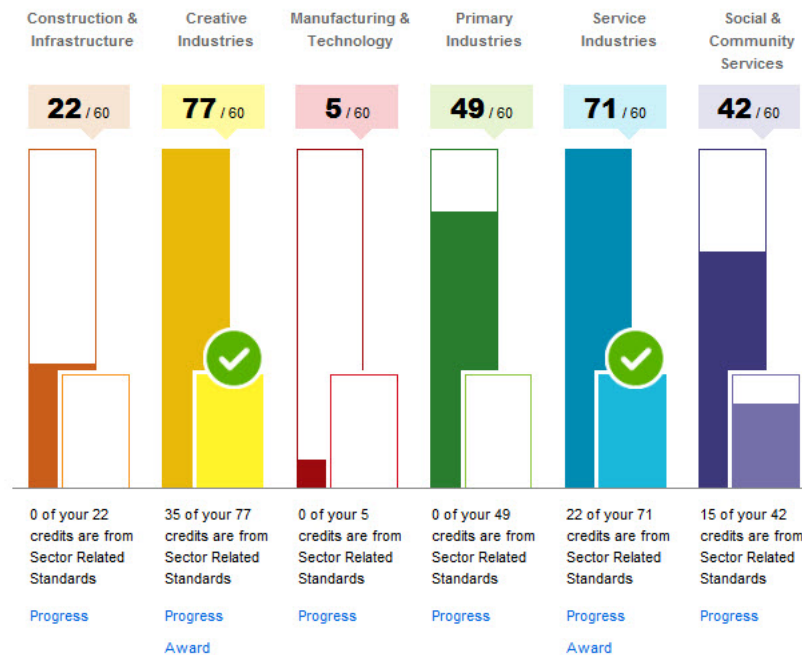
NCEA Literacy



NCEA Numeracy



NCEA Level 2



Education is not just about employment...



Education is not just about getting jobs! We teach kids to read and write; think; solve problems; sort and evaluate information; communicate; manage their time; work with others; participate; and become good citizens. We'll do the rest.



...but employment is *always* about education.