

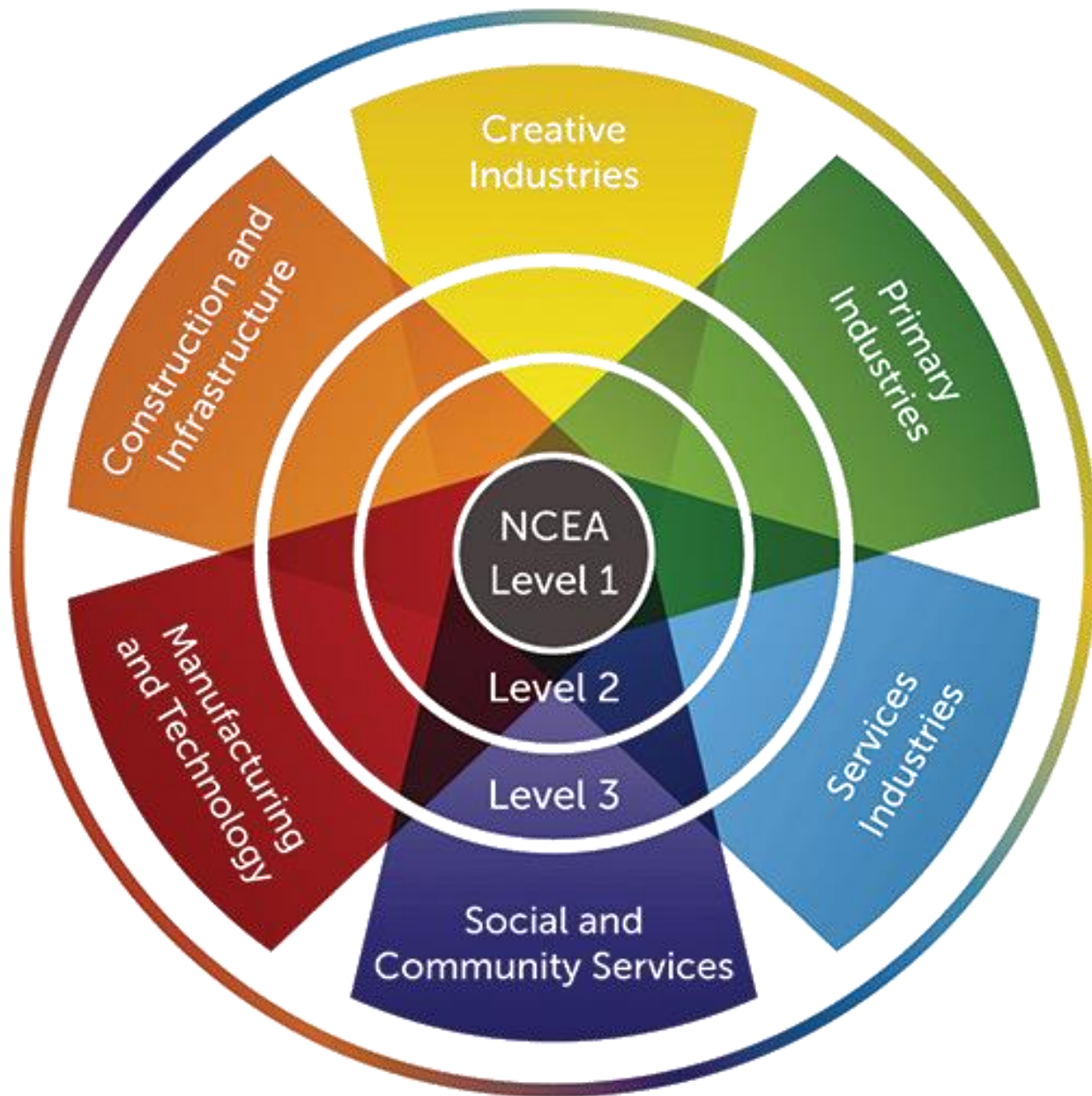


Vocational Pathways

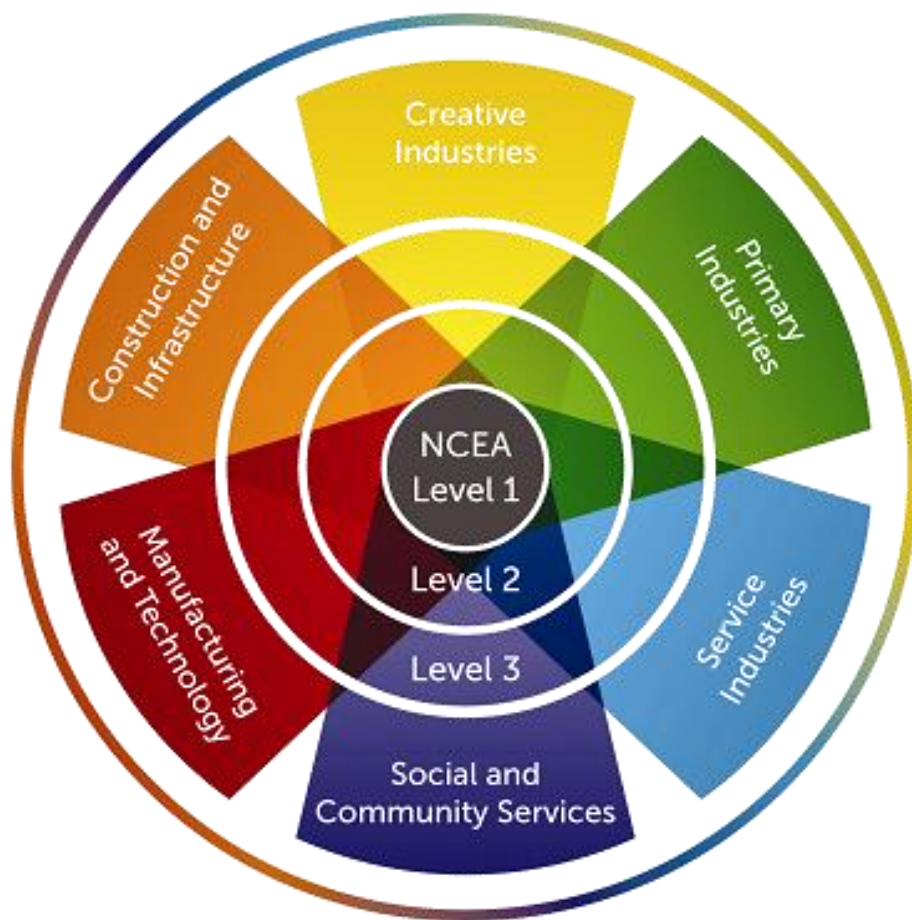


Preparation
for further
education,
training
and work

6 Sector Based Pathways
to further study and employment



NZQA's 6 sector career pathways



**So you see how what
you are studying at
school fits into the
work force**

**NZQA standards fit
into one or more
sectors**

The 2017 subject selection book identified the number of credits in each vocational pathway associated with each course offered by the college at level 1, 2 and 3 e.g.:

Science – L1SCIE					
<i>Course Relationship to the National Vocational Pathways</i>					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
4	12	19	4	4	19

Social Science – L1SOSC					
<i>Course Relationship to the National Vocational Pathways</i>					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
0	0	3	11	8	11



This standard fits into 3 sectors

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.

This standard fits all 6 sectors



5

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.

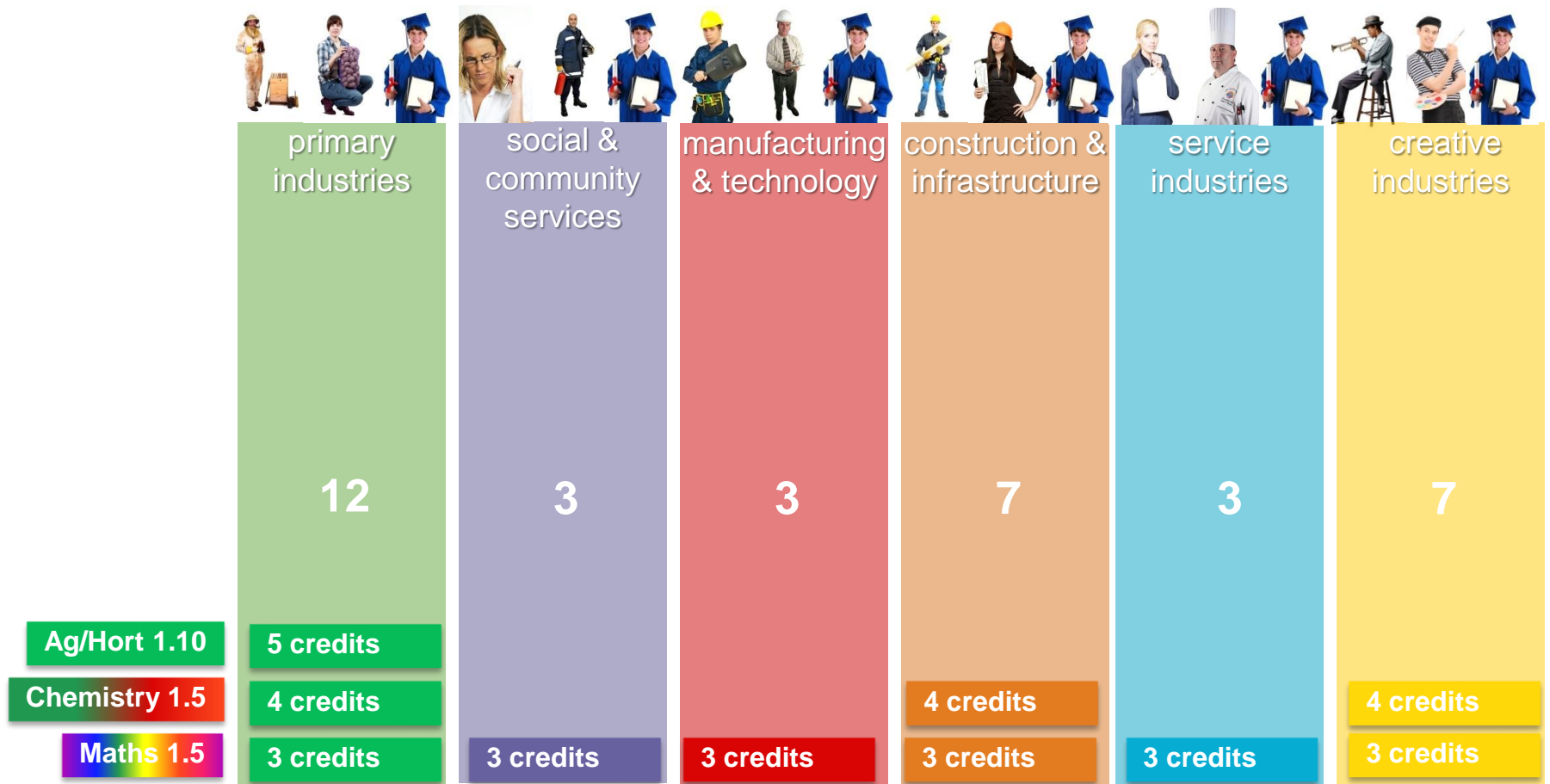
Explanatory Notes

- 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,

This standard fits into 1 sector



These 3 selected standards add up across the 6 sectors

A Vocational Pathway Certificate

You need:

- NCEA Level 1 Literacy & Numeracy
- NCEA Level 2 Certificate
- 20 sector credits from the same sector pathway

National Qualifications Framework
ANNUAL RESULT NOTICE

NZQA
NEW ZEALAND QUALIFICATIONS AUTHORITY
PUNA TOHU TĀHĀKANGA O AOTIAROA

Andrew Steven Learner
Address 1
Address 2
Address 3
Address 4 Post Code

NSN: 101101004
Academic Year: 2007
Issued: January 2008

Qualification and Achievement Summary for 2007

National Certificate of Educational Achievement - Level 1 achieved with merit
National Certificate of Educational Achievement - Level 2
New Zealand University Entrance

Qualification Achieved
01/0005
01/0006
01/0008

Standards Achieved in 2007

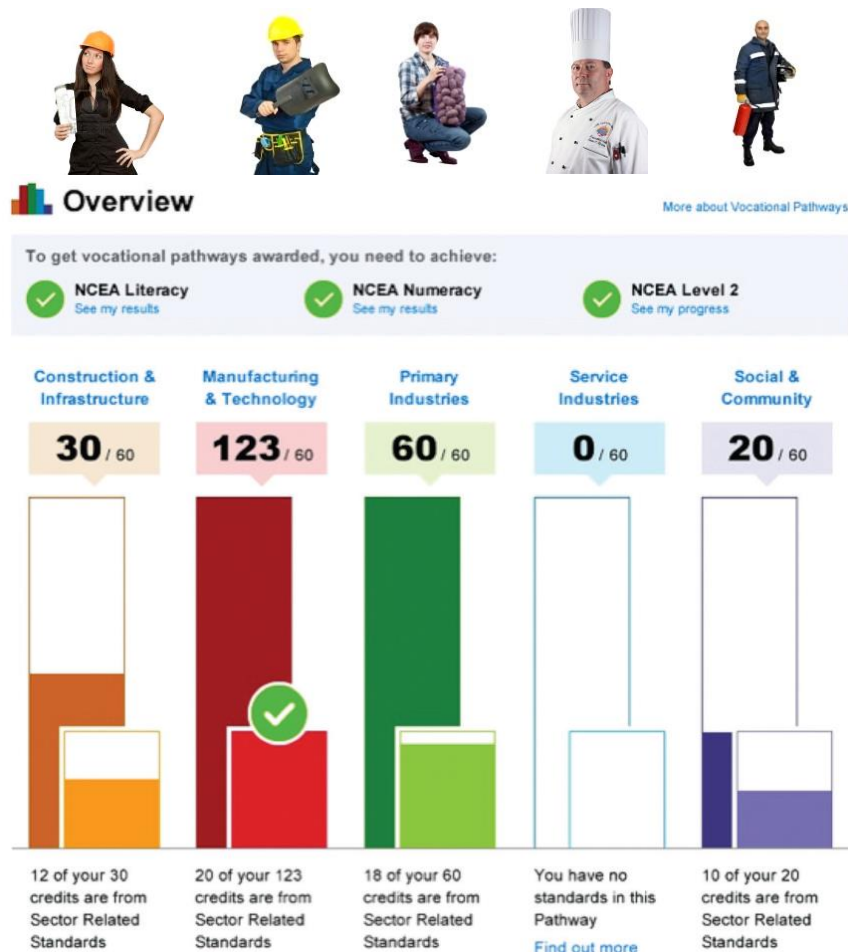
Where the result achieved is the best possible result for that standard the result will be shown in bold type.

	A - Achieved	M - Achieved with Merit	E - Achieved with Excellence	N - Not Achieved	Ext - Externally Assessed	Int - Internally Assessed
BIOLOGY						
Level 3						
9501 Describe gene expression (int)	4	A				
9502 Describe gene-gene and gene-environment interaction (int)	3	A				
9503 Carry out an investigation into an aspect of the ecological niche of an organism with guidance (int)	5	M				
9504 Research a contemporary biological issue (int)	3	A				
9505 Describe animal behaviour and plant responses (ext)	2	N				
9506 Describe patterns of evolution (ext)	2	E				
9507 Describe applications of biotechnological techniques (int)	3	A				
9508 Describe trends in human biological and cultural evolution (ext)	3	M				
Total credits achieved in 2006 in Biology at Level 3:	23					
CHEMISTRY						
Level 3						
9344 Investigate the characteristic properties and reactions of organic substances (int)	5	A				
9345 Analyse spontaneous oxidation-reduction reactions (int)	4	A				
9346 Calculate the enthalpy change associated with chemical reactions (int)	2	A				
9347 Characterise the composition of acid and base solutions (int)	4	A				
9348 Predict the formation of precipitates of sparingly soluble substances (int)	2	A				
9349 Determine the composition of an oxidant or reductant by titration (int)	2	E				
9350 Describe oxidation-reduction processes (ext)	3	M				
9351 Describe selected atomic, molecular and ionic properties (ext)	4	N				
9352 Describe the structure and reactions of organic compounds containing selected organic (ext)	3	A				
9353 Describe and use thermochemical principles (ext)	3	A				
9354 Describe aqueous systems using equilibrium principles (ext)	5	A				
Total credits achieved in 2006 in Chemistry at Level 3:	34					
Level 2						
9347 Characterise oxidation-reduction reactions (int)	3	A				
9355 Describe the structural formulae and reactions of compounds containing selected organic functional groups (ext)	4	M				
Total credits achieved in 2006 in Chemistry at Level 2:	7					
CORE HEALTH						
Level 2						
6401 Provide first aid (int)	1	A				
Total credits achieved in 2006 in Core Health at Level 2:	1					
Level 1						
6402 Provide resuscitation level 2 (int)	1	A				
Total credits achieved in 2006 in Core Health at Level 1:	1					

Issued: January 2008

Page 1 of 2

New Zealand Qualifications Authority, PO Box 100, Wellington 6141, New Zealand 6141 442 3070, www.nzqa.govt.nz



NZQA's report to you when you use your NSN number on the NZQA website

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



NCEA Literacy



NCEA Numeracy



NCEA Level 2

Construction &
Infrastructure

23 / 60



0 of your 23
credits are from
Sector Related
Standards

Creative
Industries

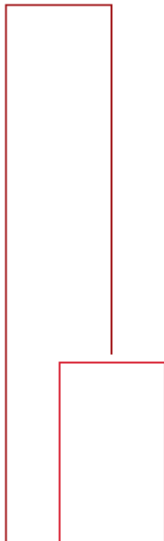
109 / 60



68 of your 109
credits are from
Sector Related
Standards

Manufacturing
& Technology

0 / 60



You have no
standards in
this Pathway.

Primary
Industries

41 / 60



0 of your 41
credits are from
Sector Related
Standards

Service
Industries

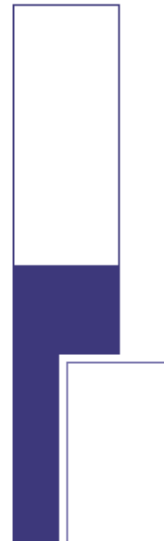
44 / 60



0 of your 44
credits are from
Sector Related
Standards

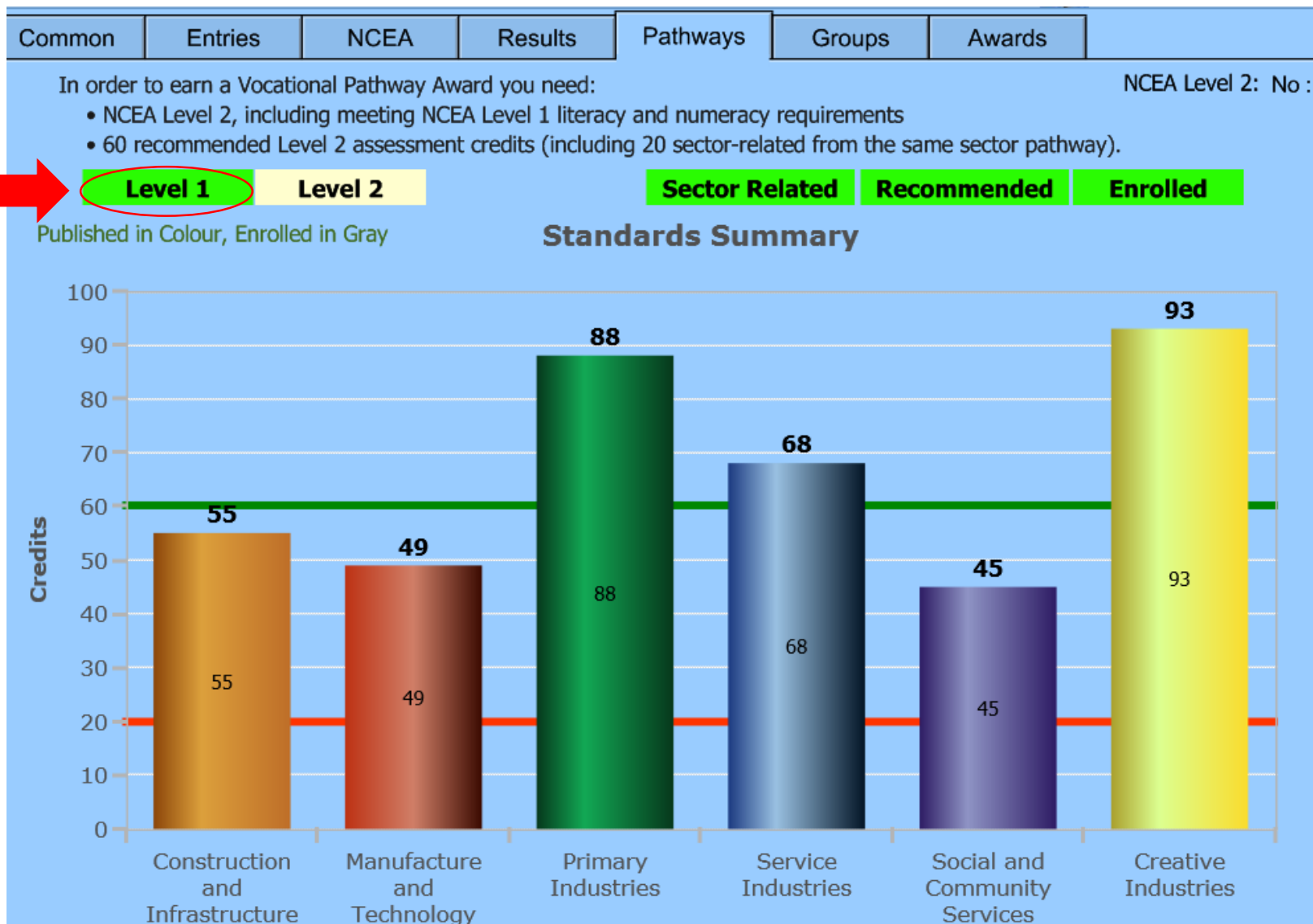
Social &
Community
Services

31 / 60

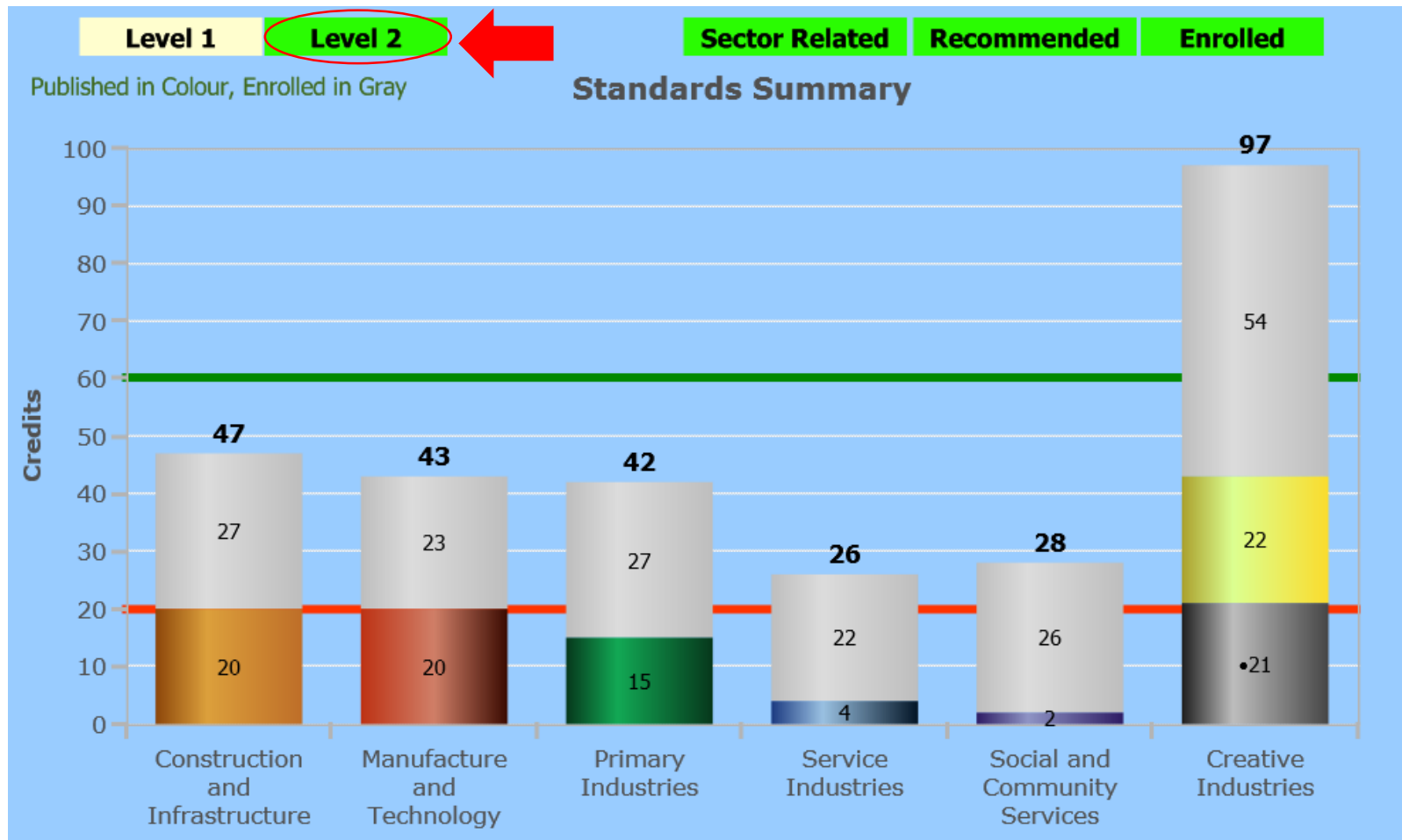


0 of your 31
credits are from
Sector Related
Standards

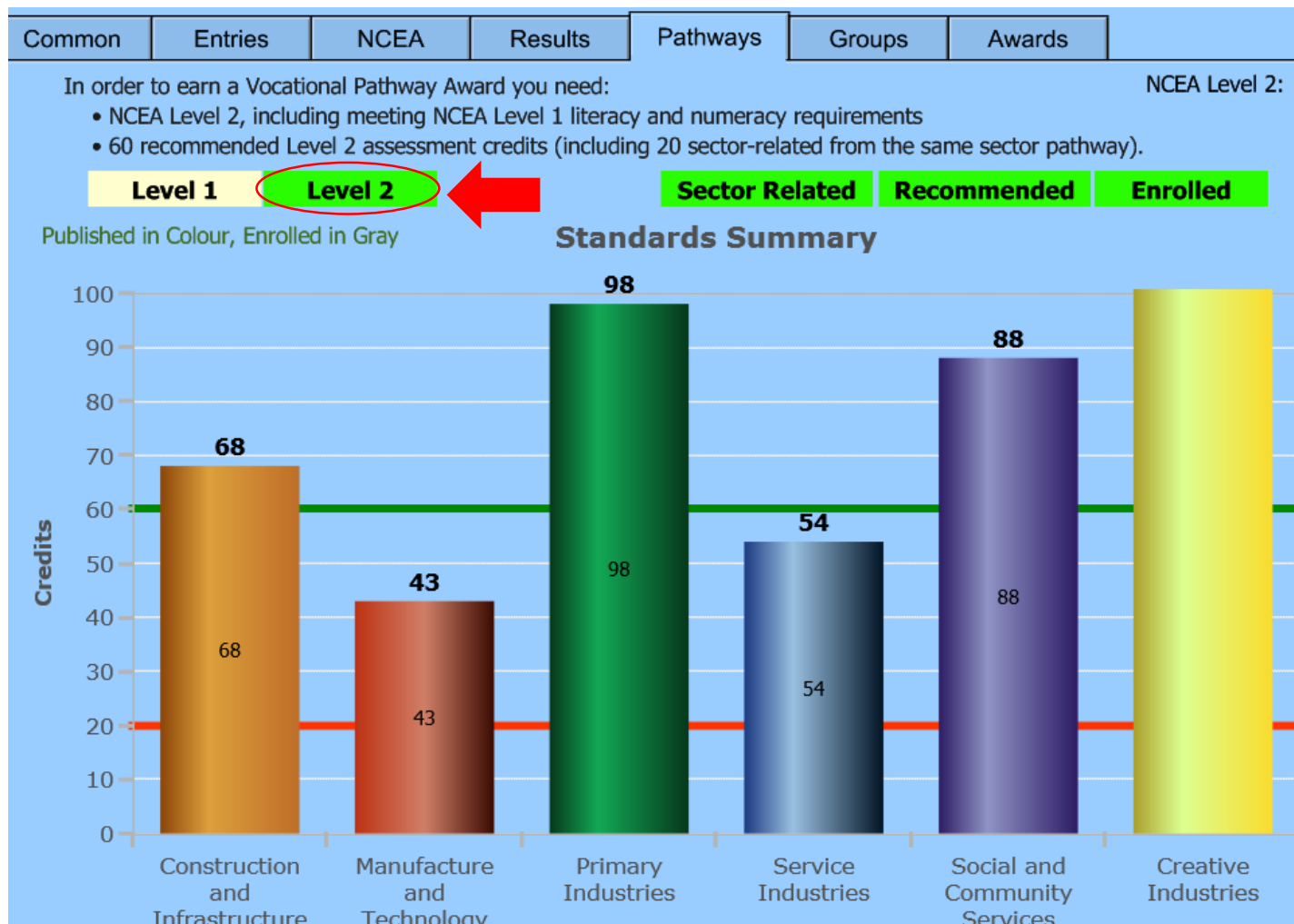
Another NZQA record using an NSN



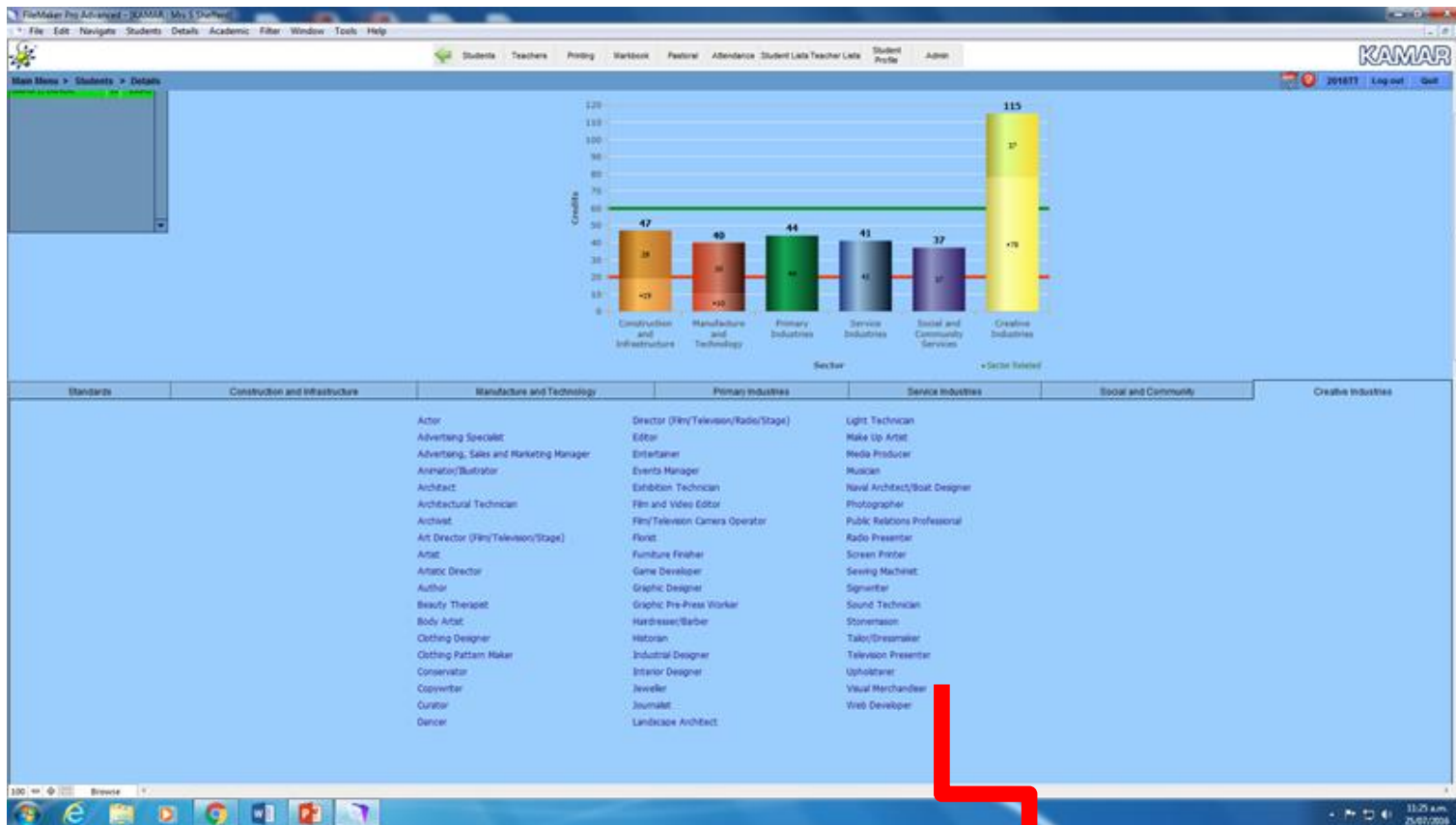
Kamar shows Vocational Pathway totals for Level 1 Standards but NZQA does not because these **do not** count towards a Vocational Pathway Certificate.



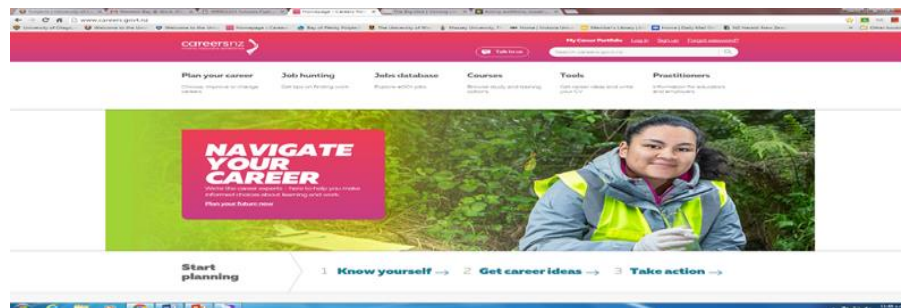
During the year Kamar shows in grey what Vocational Pathway credits you can achieve this year and in colour, ones you have already achieved.



**By the end of the year Kamar shows same information as NZQA for achieved Level 2 Standards. Twenty credits from the same 'sector' pathway and 60 further credits from the recommended standards will gain a Vocational Pathway Endorsement.
(Recommended standards include Level 1 Literacy and Numeracy)**



The list of jobs below the pathways graph are hyperlinks and will take you to the Careers NZ website.



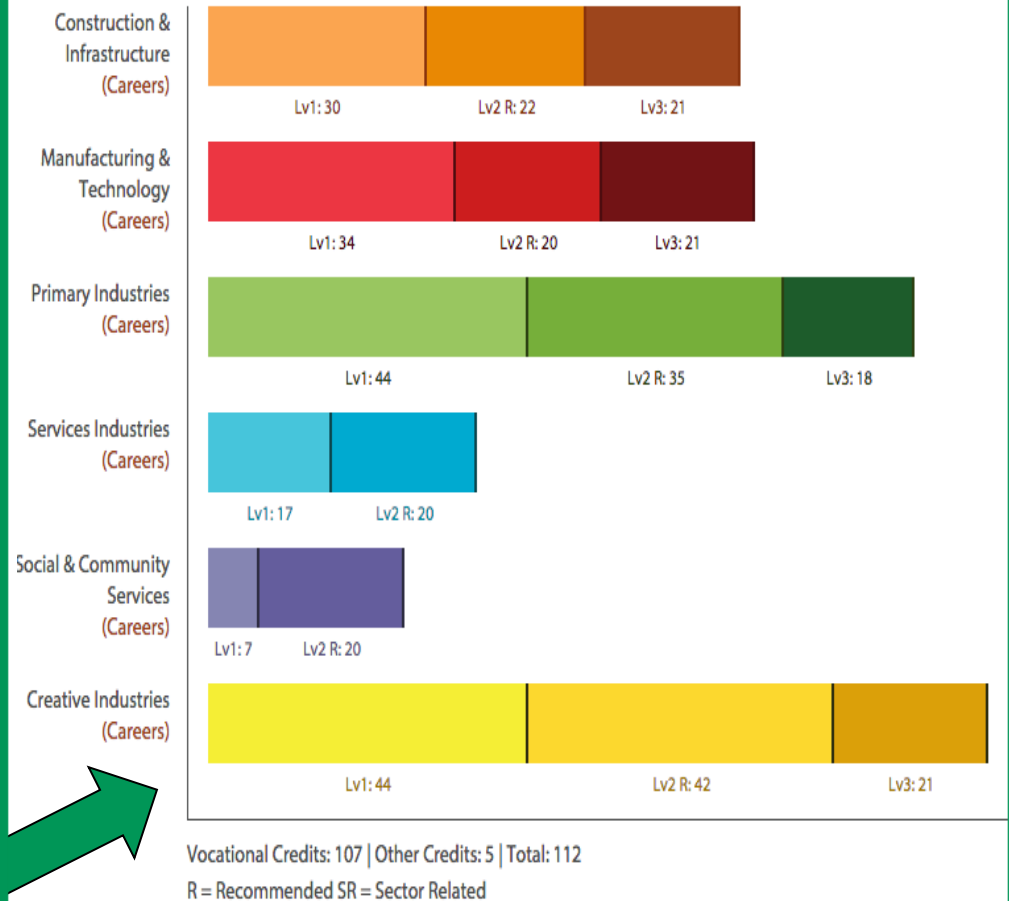
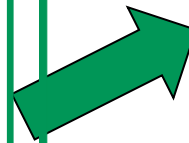
The Vocational Pathways Profile Builder

The Profile Builder is a tool for use by students, parents, whānau, and educators to help plan study options

<http://www.youthguarantee.net.nz/vocational-pathways/profile-builder/>

This tool can be used in three different ways:

- To plan a course, you can enter in standards you would like to do, or are currently doing.
- To see which Vocational Pathway you are heading along, you can enter the standards offered in your course(s).
- To help track progress towards a NCEA Level 2 Vocational Pathways Award, you can enter your standards at different times through the year, updating your profile as you go.



The Vocational Pathways Profile Builder

It can also:

- Be used at each level of NCEA – Levels 1, 2, or 3.
- Allow students to use the literacy and numeracy calculators to work out whether you have met the appropriate literacy and numeracy requirements for each NCEA level by using this link:

<http://www.youthguarantee.net.nz/vocational-pathways/profile-builder>



Standards Totals:

Lv1 Literacy

18 credits (10 required)

Achieved

Lv1 Numeracy

0 credits (10 required)

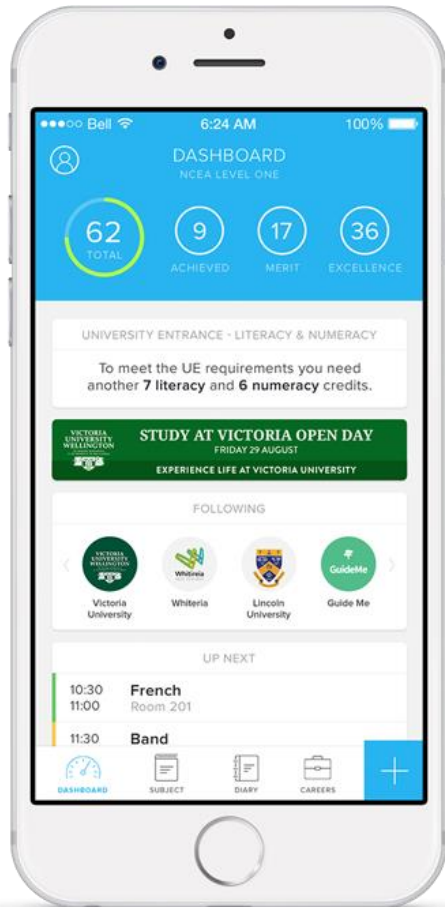
Lv2 Reading

0 credits (5 required)

Lv2 Writing

0 credits (5 required)





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