

DANNEVIRKE HIGH SCHOOL



YEAR 11  
2020  
SUBJECT SELECTION

OUR CORE BUSINESS IS  
TEACHING AND LEARNING



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# INTRODUCTION TO YEAR 11

## What qualifications will I be aiming for?

- ❖ NCEA Level 1 (National Certificate in Education Achievement)

## What do I need to do to gain NCEA Level 1?

- ❖ NCEA Level 1 requires you to gain credits from assessment tasks.
  - 80 credits are needed in total (at least)
  - 10 credits of the 80 must come from numeracy and another 10 from literacy (reading and writing) areas.

## Where do the credits come from?

- ❖ The credits come from passing assessment tasks. These can be tests, assignments, practical tasks, field trips etc.

## How do I know what I am being assessed on?

- ❖ Each subject you take has a number of 'Standards' that outline what is being assessed. e.g. Achievement Standards 90058 is a standard with the title 'Deliver a speech in a formal situation'.
- ❖ The Standard describes what the student has to do i.e. preparing and delivering a speech that communicates ideas, information or opinions and uses language, presentation techniques and a level of formality appropriate to audience, situation and purpose.

In this case if the student can do this they gain 3 credits towards NCEA Level 1.

## Are there different types of Standards?

- ❖ There are two types of Standards.
  - Achievement Standards have four grades (non-achieved, achieved, merit and excellence). The same number of credits is awarded for achieved, merit or excellence.
  - Unit Standards have two grades (non-achieved and achieved)

## Do I have to sit examinations?

- ❖ All Unit Standards are internal. These are assessed throughout the year.
- ❖ Most students will still sit some examinations at the end of the year. An examination might involve just one standard and last only 60 minutes long or may involve up to three standards and take up to 3 hours. Each subject will be different.

## How will I know what I am doing?

- ❖ At this stage you will select your subjects for next year. The content and qualification you will do in each subject are described in this booklet.
- ❖ Next year each teacher will give you a detailed assessment statement which gives you more details about the course and its assessment.

## What subjects do I have to take in Year 11?

- ❖ All students take:
  - English
  - Mathematics
  - Science

## Do I get to choose any subjects?

- ❖ You get to choose three other subjects.

**Does it matter what these subjects are?**

- ❖ Usually students at Year 11 are unsure of what they want to do when they leave school. When choosing your subjects, you may wish to think about the following:
  - Is it a subject I enjoy and am doing well in?
  - Is it a subject that I can continue in next year if I want to?
  - Is it a subject I can do next year if I don't do it in Year 11? Will that matter to me?
  - If I want to go to university or train to be something specific do I need to do this subject?
  
- ❖ If you are unsure of the answers to these questions, see your Dean or Mrs Sandbrook first. You may also wish to talk to some of the Curriculum Leaders who talked to you about their subjects at special assemblies.

**Are there different courses within each subject?**

- ❖ Subjects like English, Mathematics and Science run several different courses each. They have different content and assessments.

**Why are they different?**

- ❖ The course is designed to suit different students. A student may be very good at Mathematics and need a challenging course like 101 but needs more time or a different group of Standards to aim for in English so might be placed in a 102 course.

**Who decides which one I am in?**

- ❖ The Curriculum Leader of each Department will place students in each course based on their knowledge of the student from their experience in Year 9 and 10.

# SUBJECT INFORMATION

	CODE	Page No.
<b><i>ARTS</i></b> Drama Music Visual Arts	<b>DRA</b> <b>MUS</b> <b>ART</b>	<b>14</b> <b>14</b> <b>15</b>
<b><i>ENGLISH</i></b> English	<b>ENG</b>	<b>16</b>
<b><i>HEALTH AND PHYSICAL EDUCATION</i></b> Health Home Economics Sport Science	<b>HEA</b> <b>HEC</b> <b>SPS</b>	<b>17</b> <b>17</b> <b>18</b>
<b><i>MĀORI STUDIES</i></b> Te Reo Māori	<b>TRM</b>	<b>19</b>
<b><i>MATHEMATICS</i></b> Mathematics	<b>MAT</b>	<b>20</b>
<b><i>SCIENCES</i></b> Agriculture/Horticulture Science	<b>AGH</b> <b>SCI</b>	<b>21</b> <b>21</b>
<b><i>SOCIAL SCIENCES</i></b> Geography History	<b>GEO</b> <b>HIS</b>	<b>22</b> <b>22</b>
<b><i>TECHNOLOGY</i></b> BCATS Carpentry Engineering Design and Visual Communication Digital Technologies	<b>CRP</b> <b>EGN</b> <b>DVC</b> <b>DTE</b>	<b>23</b> <b>24</b> <b>25</b> <b>26</b>
<b><i>VOCATIONAL PATHWAYS</i></b> Agriculture Academy	<b>AGA</b>	<b>27</b>

# SENIOR COURSES OFFERED (2020)

	LEVEL 1	LEVEL 2	LEVEL 3
<i>Arts</i>	<ul style="list-style-type: none"> <li>• Drama</li> <li>• Music</li> <li>• Visual Arts</li> </ul>	<ul style="list-style-type: none"> <li>• Drama</li> <li>• Music</li> <li>• Visual Arts &amp; Photography</li> </ul>	<ul style="list-style-type: none"> <li>• Drama</li> <li>• Music</li> <li>• Visual Arts &amp; Photography</li> </ul>
<i>English</i>	English	English	English
<i>Health and Physical Education</i>	<ul style="list-style-type: none"> <li>• Health</li> <li>• Home Economics</li> <li>• Sport Science</li> </ul>	<ul style="list-style-type: none"> <li>• Health</li> <li>• Home Economics</li> <li>• Sport Science</li> <li>• Physical Education</li> </ul>	<ul style="list-style-type: none"> <li>• Health</li> <li>• Home Economics</li> <li>• Sport Science</li> </ul>
<i>Languages</i>	Māori Studies	Māori Studies	Māori Studies
<i>Mathematics</i>	Mathematics	Mathematics	<ul style="list-style-type: none"> <li>• Maths with Calculus</li> <li>• Maths with Statistics</li> </ul>
<i>Science</i>	<ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Science</li> </ul>	<ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Biology</li> <li>• Chemistry</li> <li>• Physics</li> <li>• Applied Science</li> </ul>	<ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Biology</li> <li>• Chemistry</li> <li>• Physics</li> </ul>
<i>Social Sciences</i>	<ul style="list-style-type: none"> <li>• Geography</li> <li>• History</li> </ul>	<ul style="list-style-type: none"> <li>• Geography</li> <li>• Managing personal Finance</li> <li>• History</li> </ul>	<ul style="list-style-type: none"> <li>• Geography</li> <li>• History</li> <li>• Managing Personal Finance</li> </ul>
<i>Technology</i>	<ul style="list-style-type: none"> <li>• Carpentry</li> <li>• Design and Visual Communication</li> <li>• Digital Technologies</li> <li>• Engineering</li> <li>• Fabric</li> </ul>	<ul style="list-style-type: none"> <li>• Carpentry</li> <li>• Design and Visual Communication</li> <li>• Digital Technologies</li> <li>• Engineering</li> <li>• Fabric</li> </ul>	<ul style="list-style-type: none"> <li>• Carpentry</li> <li>• Design and Visual Communication</li> <li>• Digital Technologies</li> <li>• Engineering</li> <li>• Fabric</li> </ul>
<i>Vocational Pathways</i>	Agriculture Academy	<ul style="list-style-type: none"> <li>• STAR Automotive</li> <li>• Gateway</li> <li>• Ag Academy L2</li> </ul>	<ul style="list-style-type: none"> <li>• Gateway</li> <li>• Employment Skills</li> </ul>

# REQUIREMENTS FOR NCEA

## NCEA Levels and Certificates

There are three levels of NCEA certificate, depending on the difficulty of the standards achieved. At each level, students must achieve a certain number of credits to gain an NCEA certificate. Credits can be gained over more than one year.

NCEA Level	Requirements
Level 1	80 credits are required at any level (level 1, 2 or 3) including 10 in <u>literacy</u> and 10 in <u>numeracy</u>
Level 2	60 credits at level 2 or above + 20 credits from any level
Level 3	60 credits at level 3 or above + 20 credits from level 2 or above

Credits gained at one level can be used for (or count towards) more than one certificate. They may also be used towards other qualifications. For example, Unit Standards in the domain 'generic computing' might be used towards a Level 2 NCEA certificate, as well as towards a National Certificate in Computing (Level 2); or 20 credits gained at Level 1 can also count towards a Level 2 NCEA certificate.

## MULTI-LEVEL STUDY

Students may be able to study a mix of standards at different levels, depending on their ability. For example, in Year 12, a student may study most subjects at Level 2, but add a new subject at Level 1 and another advanced subject at Level 3. In addition, students may study multi-level courses with standards assessed at more than one level, e.g. an English course at Year 11 may contain both Level 1 and Level 2 standards.

## RECOGNISING HIGH ACHIEVEMENT

Certificates can be 'endorsed' to reflect high achievement in a significant number of standards. Course endorsements appear on students' Records of Achievement, and show that students have performed well in an individual course.

### Certificate Endorsement

If a student gains 50 credits at Excellence, their NCEA will be endorsed with Excellence. Likewise, if a student gains 50 credits at Merit (or Merit and Excellence), their NCEA will be endorsed with Merit. The Record of Achievement shows endorsement awards.

Credits earned can count towards an endorsement over more than one year and more than one level. However, they must be gained at the level of the certificate or above. For example, Level 2 credits will count towards endorsement of a Level 1 NCEA, but Level 1 credits will not count towards endorsement of a Level 2 NCEA.

## **COURSE ENDORSEMENT**

Course endorsements are also possible. To gain a course endorsement the credits towards this must be gained in the same school year.

A course endorsement provides recognition for a student who has performed exceptionally well in an individual course. The key objective of a course endorsement is to motivate students to achieve their potential in one or more courses.

Students will gain an endorsement for a course if, in a single school year, they achieve:

- 14 or more credits at Merit or Excellence at the lower level that supports the endorsement
- At least 3 of these credits from externally assessed standards and 3 credits from internally assessed Standards. Note, this does not apply to Physical Education, Religious Studies and Level 3 Visual Arts.

### **Other National Certificates**

An addition to NCEA, there are numerous other national certificates available for students.

For more information, visit NZQA online at [www.nzqa.govt.nz/qualifications-standards](http://www.nzqa.govt.nz/qualifications-standards)

# **LEVEL 1 LITERACY AND NUMERACY REQUIREMENTS**

## **Literacy Requirements**

Minimum of 10 credits through:

- Achievement standards - Specified Achievement Standards\* available through a range of subjects (minimum total of 10 credits).

## **Numeracy Requirements**

Minimum of 10 credits through:

- Achievement Standards - Specified Achievement Standards\* available through a range of subjects - (minimum total of 10 credits);

\* A list of the Specified Achievement Standards for Level 1 is available at [www.nzqa.govt.nz](http://www.nzqa.govt.nz) by searching for 'literacy-numeracy'.



## **Literacy and Numeracy Using Te Reo Māori**

Except for standards that specifically require the use of a specified language, students can be assessed against all standards using Te Reo Māori or English as their language of use.

All existing Te Reo Māori sub-field unit and Achievement Standards are eligible to count for the literacy requirement and Pāngarau domain Standards are eligible to count for the numeracy requirement.

The new Achievement Standards developed for Te Reo Māori will be eligible to count for the literacy requirement for NCEA Level 1.

## **Reporting Achievement Of the Literacy And Numeracy Requirements**

The reports showing that students have achieved their literacy and their numeracy requirement will indicate how they were achieved, that is through Achievement Standards at Level 6 of the curriculum or through the purpose built literacy and numeracy Unit Standards.

On the School Results Summary and the Results Notice a statement will say either:

- 'Literacy requirement met by Achievement Standards'; or
- 'Literacy requirement met by Unit Standards'; or
- 'Numeracy requirement met by Achievement Standards'; or
- 'Numeracy requirement met by Unit Standards'

If a student has met the requirements through both the Unit and Achievement Standards methods, the statement will show that the requirement was met by Achievement Standards.

# GUIDELINES FOR STUDY AT DIFFERENT LEVELS

## Year 11

1. Year 11 students must study six subjects.
2. Three of these are compulsory. These are English, Mathematics and Science.
3. The remaining three subjects are chosen by the student.
4. Students should seek advice from teachers, careers and guidance staff, and importantly, check the Curriculum Flow Chart carefully.

## Year 12

1. Year 12 students study six subjects, English is compulsory, the other five optional.
2. English is compulsory at Level 2 and some Mathematics (required for numeracy) is strongly recommended.
3. The remaining five subjects you choose can be from different levels, e.g. Level 1 and 2.
4. All requests for entry to Year 12 Courses are treated individually, and on their merits.
5. You should seek advice from your teachers, careers and guidance staff, and importantly, check the Curriculum Flow Chart carefully.
7. A general requirement for entry to all optional subjects is evidence of strong skills and results at Level 1.

## Year 13

Year 13 may follow a course:

1. Of 4 or more subjects from the University Entrance list and another academic subject at Level 2 or 3. These students have study periods.
2. Made up of a mixture of subjects from Level 2 and 3. If a student studies less than 4 Level 3 subjects from the University Entrance list they must choose 6 subjects in total.

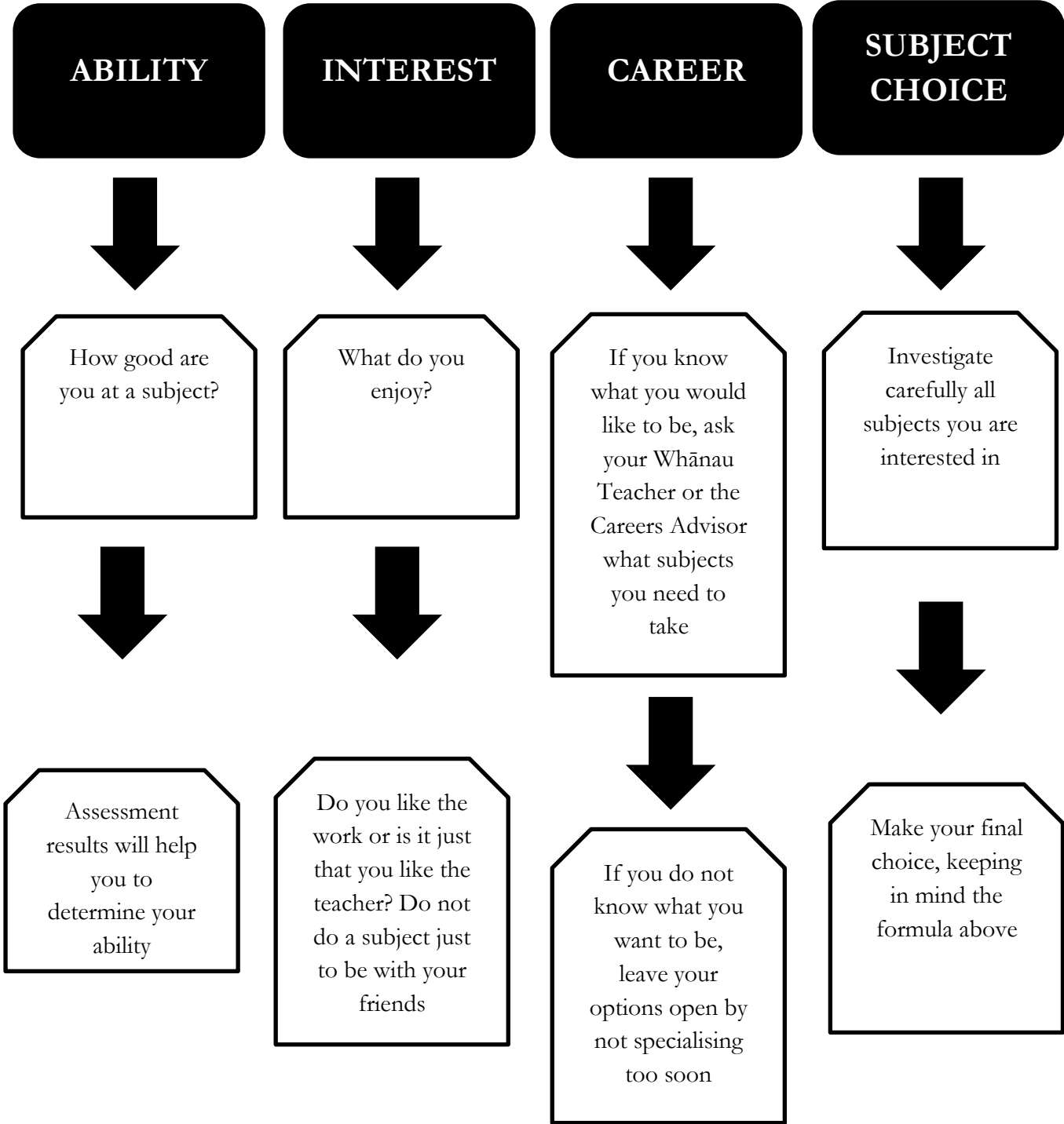
Note: A student who does not meet the criteria for a study period (see point 1 above) may request that a study period be granted by applying in writing to the Principal. The student must have special grounds for the application to succeed.

# COURSE PATHWAYS 2020

	Year 9	Year 10	Year 11	Year 12	Year 13	
<b>COMPULSORY CORE</b>	English	English	English } A range of courses	English } A range of courses	English } A range of courses	
	Mathematics	Mathematics	Mathematics } A range of courses	Mathematics } A range of courses	Mathematics & Statistics Mathematics & Calculus	
	Science	Science	Science } A range of courses	Biology Chemistry Physics Applied Science	Biology Chemistry Physics	
	Social Studies	Social Studies	Geography	Geography	Geography	
	Health/Physical Education	Health/Physical Education	History	History	History	
	A range of module subjects that may include: Home Economics			Sport Science	Sport Science	Sport Science
					Physical Education	
			Home Economics	Home Economics	Home Economics	Home Economics
				Health	Health	Health
Design and Visual Communication Technology			Design and Visual Communication	Design and Visual Communication	Design and Visual Communication	Design and Visual Communication
			Wood Technology	BCATS - Carpentry	BCATS - Carpentry	BCITO - Carpentry
		Metal Technology	Engineering	Engineering	Engineering	
		Fabric	Fabric	Fabric		
Music	Music	Music	Music	Music		
<b>OPTIONAL SUBJECTS</b>	Rural Studies	Rural Studies	Agriculture	Agriculture	Agriculture	
	Visual Arts	Visual Arts	Visual Arts	Visual Arts & Photography	Visual Arts & Photography	
				Managing Personal Finance	Managing Personal Finance	
	Digital Technologies	Digital Technologies	Digital Technologies	Digital Technologies	Digital Technologies	
	Te Reo Māori	Te Reo Māori	Māori Studies	Māori Studies	Māori Studies	
		Drama	Drama	Drama	Drama	
				Gateway	Gateway	
				STAR Auto Engineering		
				Employment Skills	Employment Skills	
			Range of VC courses	Range of VC courses	Range of VC courses	
		Agriculture Academy	Agriculture Academy			

# HOW TO SELECT YOUR COURSE

## Think about:

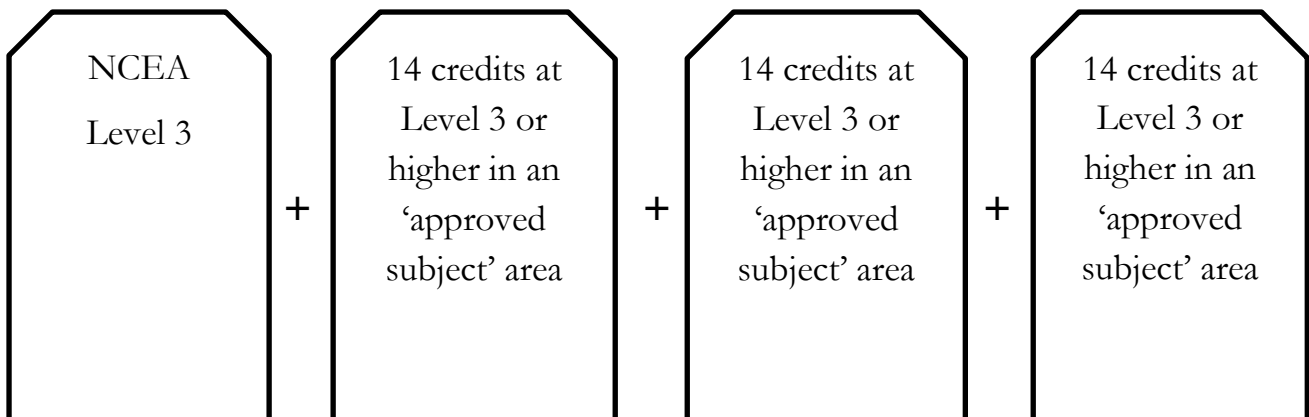


# ENTRY REQUIREMENTS FOR UNIVERSITY

To gain University Entrance, students require:

- NCEA Level 3
- 14 credits at Level 3 or higher in each of three subjects from an approved subject list (see below). Note: The approved subject list may change from year to year.
- Achieve University Entrance numeracy – 10 credits at Level 1 and above from specific achievement standards or three specific numeracy Unit Standards.
- Achieve University Entrance literacy – 10 credits (5 in reading and 5 in writing) at Level 2 and above from specific standards

## *Summary*



**PLUS**

- 10 credits in Mathematics at Level 1 or higher
- 5 credits at Level 2 or above in Reading
- 5 credits at Level 2 or above in Writing

## University Courses With Limited Entry

Applicants for limited entry courses need to achieve the Common Entry Standard stated above **plus** additional requirements specified for the course. It is wise to check with the university regarding specific course entrance requirements.

Subjects offered at Dannevirke High School that are on the List of University Entrance Approved Subjects:

Accounting	English 301	Mathematics with Statistics
Agriculture/Horticulture	Fabric	Music
Biology	Geography	Sport Science
Chemistry	Design & Visual Communications	Physics
History	Health	Visual Arts
Digital Technologies	Home Economics	
Drama	Mathematics with Calculus	

## INFORMATION ONLINE

For additional advice – the following sites will provide excellent information:

NZQA	<a href="http://www.nzqa.govt.nz/">http://www.nzqa.govt.nz/</a>
TKI	<a href="http://www.tki.org.nz/">http://www.tki.org.nz/</a>
NCEA ON TKI	<a href="http://www.tki.org.nz/e/community/ncea/">http://www.tki.org.nz/e/community/ncea/</a>
ASSESSMENT RESOURCES (TKI)	<a href="http://www.tki.org.nz/e/community/ncea/resources.php">http://www.tki.org.nz/e/community/ncea/resources.php</a>
STUDYIT (NCEA study resources)	<a href="http://www.studyit.org.nz/">http://www.studyit.org.nz/</a>
MINISTRY OF EDUCATION	<a href="http://www.minedu.govt.nz/">http://www.minedu.govt.nz/</a>
CAREERS GUIDANCE	<a href="http://www.careers.govt.nz/">http://www.careers.govt.nz/</a>

# WHO TO TALK TO

This chart gives the names of teachers who can provide information about subjects or assist you with choices.

SUBJECT AREA	TEACHER
Agriculture Employment Skills English Food Technology Gateway and Trades Academy Health Digital Technologies Te Reo Māori Mathematics Music NCEA/NZQA Liaison Physical Education & Sports Science Social Sciences Technology Visual Arts	Mrs C Menzies Mr Te Huki Mr Carr Mrs Prasad Mr Te Huki Ms Goggin Mrs Lohead Whaea Gina Hauti-Houkamau Mr MacKay Mrs G Scott Mrs Sandbrook Mrs Macpherson Mrs Menzies Mr Melvin Mr Hewald Mrs Walding
<b>OTHER KEY PEOPLE</b>	
Deputy Principal Assistant Principal Deans Careers Advisor	Mrs Sandbrook Mr Melvin Ms Goggin, Ms Miller and Mrs Lohead Mrs Sandbrook

# ARTS

## DRAMA LEVEL 1

This course is for students who have an interest in the Performing Arts. Topics covered include Developing Techniques, Conventions and Elements, Devising own performances, studying a Theatre Form and Performing a Scripted Piece.

<b>Qualification:</b>	Up to 26 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Both theory and performance work.
<b>Recommended Entry Requirement:</b>	Year 10 Drama would be helpful but not compulsory.
<b>Leads to:</b>	<p>Drama Level 2.</p> <p>A career within Performing Arts; Acting, Directing, Costume and Makeup, Set Design, Sound and Lighting.</p> <p>Drama is a positive asset to any career.</p> <p>It promotes life-long learners and builds confidence in students to be actively involved in their workplaces and communities, and understanding of others.</p>

## MUSIC LEVEL 1

This course is for students who may continue on to take Year 12 Music subjects.

Topics covered include Solo Performance, Group Performance; Composition, Aural Recall; Score Reading; Musical Works.

<b>Qualification:</b>	Up to 26 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Both theory and practical work.
<b>Recommended Entry Requirement:</b>	➤ Performance Instrument in Year 10 Music.
<b>Leads to:</b>	<p>Music in Year 12 and 13.</p> <p>Careers in the areas of: Education, Radio, Event Manager, Music Therapist, Musician, Entertainer, Conductor, Sound Production: Film/Video/ TV, Teaching Tutor, Composer and many more.</p>



# VISUAL ARTS LEVEL 1

This course is for students with an interest and ability in Visual Arts. Students will be required to explore two or more art making methods from printmaking, painting, design, photography, moving image. There are no NCEA credits for drawing only.

<b>Qualification:</b>	Up to 20-22 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Both theory and practical work.
<b>Opportunities and Resources available for purchase</b>	➤ Art Camp (\$200.00)
<b>Recommended Entry Requirement:</b>	Successful completion of Year 10 Visual Arts.
<b>Leads to:</b>	<p>Level 2 and 3 Printmaking or Painting.</p> <p>Careers in the areas of Architecture, Graphic Design, Film and Theatre Industries, Publishing, Photography, Commercial Illustration, Education, Museum Work, Fashion Industry, Animation and Computer Games, Hairdressing and Beautician Careers and many more. Degree programmes including, Graphic Design, Advertising, Animation and many more.</p>

# ENGLISH

## ENGLISH LEVEL 1

This course is compulsory for all Year 11 students.

Topics include reading independently, making connections and writing about a variety of fiction and non-fiction texts, public speaking and careful listening.

Different classes may also cover creative and formal writing, creating visual and verbal images, internet research and/or close reading of oral and visual texts.

<b>Qualification:</b>	24 credits in NCEA Level 1.
<b>This Course Requires:</b>	Compulsory for all students
<b>Recommended Entry Requirement:</b>	Appropriate to each of the four different levels.
<b>Leads to:</b>	English Level 2.

# HEALTH PHYSICAL & EDUCATION

## HEALTH LEVEL 1

This course is for students interested in health and social issues.

Topics that could be covered include goal setting and ways in which our wellbeing (hauora) can change, interpersonal skills in relationships, strategies for promoting positive sexuality, understanding of decisions made in drug related situations.

<b>Qualification:</b>	Up to 24 NCEA Level 1 credits.
<b>Opportunities and Resources available for purchase</b>	➤ Workbook (approximately \$25.00).
<b>Recommended Entry Requirement:</b>	Open.
<b>Leads to:</b>	Health Level 2 and Level 3  Nursing, Health Care Assistant, Dietician, Ambulance Officer, Community Worker, Airforce, Sports Coach, Physiotherapist, Customs Officer, Psychologist, Optician, Community Worker, Teacher, Youth Worker, Police Officer, Nurse, Social Worker.

## HOME ECONOMICS LEVEL 1

This course is for students who are considering continuing on with the NCEA Home Economics Achievement Standards at Year 12 and Year 13.

The course allows students to pass Level 1 NCEA with Achievement Standards credits with (AME). It also allows students to develop and become competent in a wide range of cooking practical skills in the following topics: Food safety, and food/nutrition and well-being. Hospitality standards may be offered in response to student interest.

<b>Qualification:</b>	28 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Subject fee of \$50.00 which covers all the consumables used during the teaching and learning process. ➤ Hospitality standards incur a fee of \$33.00
<b>Recommended Entry Requirement:</b>	Open.
<b>Leads to:</b>	Home Economics at Level 2 and 3.  University Entrance.  Careers in the Food Service Industry.

# SPORT SCIENCE LEVEL 1

This course is for students interested in the academic study of Sport Science.

Topics to be studied include: Interpersonal Skills, Development of Skills, Enhancing student participation, Goal setting, Participating in a variety of activities.

<b>Qualification:</b>	Up to 23 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Practical and theory work.
<b>Opportunities and Resources available for purchase</b>	
<b>Recommended Entry Requirement:</b>	Satisfactory completion and participation in Year 9 and 10 Physical Education.
<b>Leads to:</b>	Sport Science Level 2 and Level 3.  A career in a variety of areas including Sport, Medicine, Nutrition, Marketing, Personal Training, Coaching, Business, Management and more.

# MĀORI STUDIES

## MĀORI STUDIES LEVEL 1

This course is for students who desire to develop knowledge of te ao Māori (the Māori world)

The teaching programme will consist of Unit Standards covering the topics of Tikanga and Performing Arts.

<b>Qualification:</b>	Approximately 21 credits towards Level 1, NCEA.
<b>This Course Requires:</b>	➤ Theory and practical.
<b>Opportunities and Resources available for purchase</b>	Marae visits
<b>Recommended Entry Requirement:</b>	A genuine passion and love of Te Reo Māori and Tikanga Māori
<b>Leads to:</b>	Careers in the areas of: Teaching – Early Childhood, Kōhanga Reo, Childcare, Performance, Primary and Secondary Education.

# MATHEMATICS

## MATHEMATICS LEVEL 1

This course is for students who intend to continue on to take Level 2 Mathematics and/or who are aiming for Merit or Excellence endorsements in Mathematics.

Mathematics is compulsory at Level 1. Students are placed in classes according to ability. Topics offered in each class vary but could include: Numeric Reasoning, Statistics and Probability and may include: Algebra, Graphing, Trigonometry, Geometry and Measurement. All students need at least 10 Numeracy credits in order to gain NCEA Level 1. All mathematics credits count towards the numeracy requirement.

<b>Qualification:</b>	Up to 30 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Both theory and practical work.
<b>Opportunities and Resources available for purchase</b>	➤ Purchase of various workbooks (up to \$25.00). ➤ Graphics Calculator (\$100.00) for some students, teaches will notify.
<b>Recommended Entry Requirement:</b>	Compulsory for all students. Compulsory for the classes.
<b>Leads to:</b>	Higher grades lead to Mathematics at Level 2. Mathematics is a core component of many vocational pathways. Many careers including Statistician, Analyst in the fields of Economics, Science, Intelligence, Meteorology etc, Aeronautics, Electronics, Cryptography, Internet Traffic and Searching, Medicine.

# SCIENCE

## AGRICULTURE/HORTICULTURE LEVEL 1

This course is for students with an interest in any aspect of Agriculture and who may continue on to take Year 12 Agriculture.

Topics covered include pasture and crop management, soils, primary production in New Zealand the impact of farming on the environment and livestock management practices.

<b>Qualification:</b>	Up to 23 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Mainly theory with some practical.
<b>Opportunities and Resources available for purchase</b>	➤ Purchase of a Learning Workbook (\$25.00).
<b>Recommended Entry Requirement:</b>	Open.
<b>Leads to:</b>	Agriculture in Year 12 and 13.  Careers in the areas of Agriculture, Horticulture, Earth and the Environment, Agricultural Engineering, Farm Management, Food Technology, Plant Based Industries, Rural Banking, Stock Agent, Marketing and many more.

## SCIENCE LEVEL 1

This course is for students who may continue on to take Year 12 Science subjects and/or who are aiming for Merit or Excellence endorsements.

Level 1 S and C Topics covered include Genetics, Acids and Bases, Mechanics and a variety of contexts that allow Practical Achievement Standards to be undertaken.	Level 1 I and E Topics covered include Humans and Microbes, Investigation of an Earth Science and Biological issue and practical investigations.
<b>Qualification:</b>	Up to 24 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Both theory and practical work.
<b>Opportunities and Resources available for purchase</b>	➤ Field work (1 day, approximate cost \$25.00). ➤ Purchase of a write-on manual (\$20.00).
<b>Recommended Entry Requirement:</b>	Appropriate to each of the different levels.
<b>Leads to:</b>	Biology, Chemistry and Physics in year 12 and 13.  Careers in the areas of Health, Education, Earth and the Environment, Engineering, Agriculture, Sports, Forensics, Pharmacy, Food Technology, the Forces, Plant Based Industries and many more.

# SOCIAL SCIENCES

## GEOGRAPHY LEVEL 1

This course is for students who care about environment, earth and the people that live here.

Topics are how people live in our world, how people and our landscape are affected by earthquakes and tsunamis, issues like Social Networking (Facebook) and sustainability of ecotourism and population growth to 7 billion people.

<b>Qualification:</b>	Up to 25 credits in NCEA Level 1.
<b>This Course Requires:</b>	➤ Mapping, graphing, research.
<b>Opportunities and Resources available for purchase</b>	➤ Field work (1 day, approximate cost \$50.00).
<b>Recommended Entry Requirement:</b>	Open.
<b>Leads to:</b>	Geography in Year 12 and 13 and University study.  Careers in studying and managing the Environment, Town and Regional Planning, Tourism, Weather Forecasting, Quantity Surveying, DOC, CIS Operator, Volcanologist and many more.

## HISTORY LEVEL 1

History offers an understanding of human activities in the past, in the context of change through time. Entering into other times and places challenges students to think about continuity and change, similarities and differences, cause and effect. History enables students to understand their heritage and that of their community, society and nation. This course involves in-depth study of three topics from the twentieth and twenty first centuries: Global conflict; the 9/11 terrorist attacks, conflict at home; New Zealand's search for security and the sinking of the Rainbow Warrior; Racial conflict; Black Civil Rights in the USA.

<b>Qualification:</b>	20 – 24 credits in NCEA Level 1
<b>This Course Requires:</b>	
<b>Opportunities and Resources available for purchase</b>	
<b>Recommended Entry Requirement:</b>	Open.
<b>Leads to:</b>	Level 2 & 3 History; University Study



# TECHNOLOGY

## BCATS CARPENTRY LEVEL 1

This course is for students who may continue on to take Year 12 BCATS Carpentry and who are aiming for National Certificate BCATS Level 2.

Topics covered include Health and Safety in the Workshop, practical project work, theory paperwork relating to knowledge required in construction processes, the safe and correct use of portable electric tools and develop individual skills to use in projects undertaken.

<b>Qualification:</b>	Up to 22 credits in NCEA Level 1 and Level 2.
<b>This Course Requires:</b>	<ul style="list-style-type: none"><li>➤ Theory and Practical work.</li><li>➤ Subject fee for consumables e.g. Screws, Glue, Sandpaper (\$50.00).</li><li>➤ Purchase of material, special fittings and finishing products used in their own project.</li></ul>
<b>Recommended Entry Requirement:</b>	Participated in Woodwork as a Year 10 option.
<b>Leads to:</b>	<p>BCATS Carpentry in Year 12 and 13 and BCITO Carpentry in Year 13 once National Certificate in BCATS Level 2 has been achieved.</p> <p>Leads to entry into the Building Apprentice Courses at some Technical Institutions and further to a career in the areas of Building, Construction and associated trades.</p>

## ENGINEERING LEVEL 1

This course is for students who may continue on to take Year 12 Engineering and who are aiming for elements of the National Certificate in Mechanical Engineering Level 2.

Topics covered include Health and Safety in the Workshop, Practical project work, theory paperwork relating to knowledge required in Engineering processes, the safe and correct use of workshop equipment, tools and develop individual skills to use in projects undertaken.

<b>Qualification:</b>	26 credits in NCEA Level 1.
<b>This Course Requires:</b>	<ul style="list-style-type: none"> <li>➤ Theory and Practical work.</li> <li>➤ Subject fee for consumables e.g. oxy-acetylene Gas, MIG welding consumables, grinding disc etc. (\$50.00).</li> <li>➤ Purchase of materials, special fittings and finishing products used in their own project is an additional cost.</li> </ul>
<b>Recommended Entry Requirement:</b>	Have done well in Metalwork as a Year 10 Option.
<b>Leads to:</b>	<p>Engineering in Year 12 and 13 which achieves elements of the National Certificate in Mechanical Engineering Level 2.</p> <p>Leads to entry into the Engineering Apprentice Course scheme where the National Certificate of Mechanical Engineering will be completed through Technical Institutions and further to a career in the areas of Engineering and associated trades.</p>

# DESIGN AND VISUAL COMMUNICATION LEVEL 1

This course is for students who are considering to continue on with Year 12 and 13 DVC.

Topics covered include Freehand Sketching and Rendering Techniques, learning to problem solve by using Visual Communication Techniques and undertaking Technical Drawing skills with the opportunity to learning how to use computer software programmes such as 3D modelling and CAD work.

<b>Qualification:</b>	Up to 22 credits in NCEA Level 1.
<b>This Course Requires:</b>	
<b>Opportunities and Resources available for purchase</b>	<ul style="list-style-type: none"> <li>➤ The Purchase of a Graphics Pack (\$45.00) which is used through to Level 3.</li> <li>➤ Students who have their own laptops can download the software and get it licenced.</li> </ul>
<b>Recommended Entry Requirement:</b>	Satisfactory completion of Year 10 DVC.
<b>Leads to:</b>	<p>Design and Visual Communication at Level 2 and 3.</p> <p>Careers and/or apprenticeships in the areas of Environmental and Civil Engineering, Engineering and associated trades, Building and associated trades, Agriculture, the Armed Forces, Design in both Interior and Architectural and many more.</p>

## DIGITAL TECHNOLOGIES LEVEL 1

This course is for students who are considering continuing on with Year 12 and 13 Digital Technologies.

Topics covered may include: Basic procedures of – computer file management, communication and information, design and design principles, web page design, desktop published documents operate a PC, legal, moral and ethical considerations when producing a project.

<b>Qualification:</b>	Up to 18 credits in NCEA Level 1.
<b>This Course Requires:</b>	
<b>Recommended Entry Requirement:</b>	Satisfactory completion of Year 10 Digital Technologies.
<b>Leads to:</b>	Digital Technologies at Level 2 and 3.  Careers and/or apprenticeships in the areas of Pre-press, Copy and Digital Centres, Print Centres, Design Studios, Advertising, Desktop Publishing, Newspapers, Education, Digital Production, Support Technician, Computer Sales, Data Entry, Design and many more.

# VOCATIONAL PATHWAYS

## AGRICULTURE ACADEMY LEVEL 1

This course is for students with an interest and ability in Agriculture or Horticulture.

Areas covered are: Primary Production in New Zealand, Looking after yourself in the workplace, Propagation Techniques, Visits to a minimum of 14 Primary production places.

<b>Qualification:</b>	40 credits in NCEA: 24 at Level One and 16 at Level Two
<b>This Course Requires:</b>	<ul style="list-style-type: none"> <li>➤ Both theory and practical work.</li> <li>➤ Course costs covered by Primary ITO</li> <li>➤ Entry through an interview</li> </ul>
<b>Opportunities to experience Primary Production in New Zealand</b>	<ul style="list-style-type: none"> <li>➤ 14 Field Trips</li> </ul>
<b>Recommended Entry Requirement:</b>	Primary ITO approval.
<b>Leads to:</b>	<p>New Zealand Certificate in Primary Sector (Level 1) Level 2 Agriculture Academy or Level 2 Agriculture</p> <p>Careers in the areas of Primary Production eg. Agriculture, Horticulture, Turf Management, Water Quality, Equine.</p>