

# MOUNT ROSKILL GRAMMAR SCHOOL



MOUNT ROSKILL  
GRAMMAR SCHOOL

**2023 Year 10 ACADEMIC PROGRAMME**  
*A guide to choosing your learning pathway*

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## Course Selection Instructions for Year 9 2022 Students entering Year 10 in 2023

In Year 10 you have core subjects: English, Mathematics, Science, Social Studies, Physical Education and Health. Students will need to choose their option subjects.

*Students will need to complete a google form to select their options.*

The link is: <https://forms.gle/u4xyYyX7x3JFAywc6>

As year 10 you have two option lines which can be filled with,

- 2 full year courses (Languages and Music)
- 1 full year course (Languages or Music) and 2 half year courses.
- 4 half year options.

You can only take a language in year 10 if you took the same language in year 9.

In the form you can express your interest in being selected for an academy class. You need to choose other options in case you are not selected.

### Year 10 Option Summary:

Department	Course Code	Course Title
Academy	10ACB	10 Academy Basketball
	10ACF	10 Academy Football
	10ACH	10 Academy Hockey
	10ACR	10 Academy Rugby
		<b>No 10 Performing Arts Academy</b>
Art	10ART	10 Visual Art
Commerce	10BUS	10 Business Studies
Food and Hospitality	10FOD	10 Food
Languages	10CHN	10 Chinese
	10FRE	10 French
	10JAP	10 Japanese
	10MAO	10 Te Reo Māori
	10SAM	10 Samoan
Media Studies	10MED	10 Media Studies
Music	10MUS	10 Music Studies
Performing Arts	10DAN	10 Dance
	10DRA	10 Drama
Technology	10DGT	10 Digital Technologies
	10DSM	10 Design with Soft Materials
	10DVC	10 Design and Visual Communication
	10TCE	10 Electronics and Programming
	10TMM	10 Technology Multi-Materials

# Courses available at Mount Roskill Grammar School

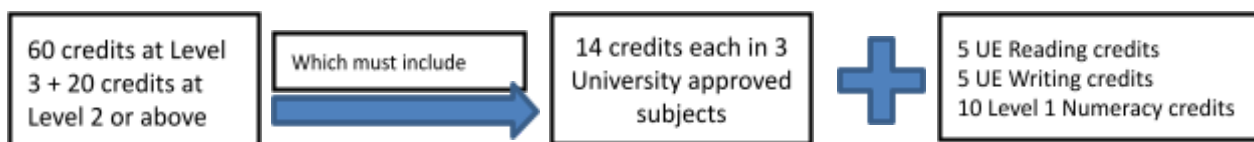
Department	YEAR 10	YEAR 11	YEAR 12	YEAR 13
Academies	Basketball Football Hockey Rugby	Not Available	Not Available	Not Available
Art (Visual Arts)	Visual Art	Visual Art	Art Visual – Painting or Printmaking Design Photography	Art Visual – Painting or Printmaking Design Photography
Business/Commerce	Business Studies	Accounting Economics	Accounting Business Practice Economics	Accounting Business Practice Economics
English	English	English or English Literacy	English or English Literacy	English Visual Language English Written Language English Literacy
ESL		ESL	ESL	EAP
Food and Hospitality	Food	Food and Hospitality Home Economics	Food and Hospitality Home Economics	Catering and Hospitality Food and Hospitality
Languages	Chinese French Japanese Māori Samoan	Chinese French Japanese Māori Samoan	Chinese French Japanese Māori Samoan	Chinese French Japanese Māori Samoan
Mathematics	Mathematics	Mathematics Academic Mathematics Mathematics Internal	Mathematics Academic Mathematics Mathematics Internal	Maths with Calculus Maths with Statistics Mathematics
Media Studies	Media Studies	Media Studies	Media Studies	Media Studies
Music	Music Studies	Music Studies Making Music	Music Studies Making Music	Music Studies Making Music
Performing Arts	Dance Drama	Dance Drama	Dance Drama	Dance Drama
Physical Education and Health	Physical Education Health	Physical Education Health	Sports Science Sport and Recreation Health	Sports Science Sport and Recreation Health
Science	Science	Science	Biology Chemistry Physics General Science	Biology Chemistry Physics
Social Sciences	Social Studies	Geography History	Classical Studies Early Childhood Education Geography History Tourism	Classical Studies Geography History Tourism
Technology	Digital Technologies Design with Soft Materials Design and Visual Communication Electronics and Programming Technology Multi-Materials	Computer Science Design with Soft Materials Design and Visual Communication Electronics and Programming Technology Multi-Materials	Computer Science Creative Digital Technologies Design with Soft Materials Design and Visual Communication Electronics and Programming Technology Multi-Materials Building, Construction and Trade Skills (BCT)	Computer Science Creative Digital Technologies Design with Soft Materials Design and Visual Communication Electronics and Programming Technology Multi-Materials Trades Preparation
Technology / Performing Arts			Theatre Technologies	Theatre Technologies

# Helpful Information

## NZQA Key Information

Level 1 Certificate: 80 credits at Level 1 or above including 10 literacy and 10 numeracy credits  
 Level 2 Certificate: 80 credits - a minimum of 60 credits at Level 2 or above and 20 credits at any level  
 Level 3 Certificate: 80 credits – a minimum of 60 credits at Level 3 and 20 credits at Level 2 or above

## University Entrance



More information on NCEA, including course and level endorsement is available from the school website [www.mrgs.school.nz](http://www.mrgs.school.nz) and from the NZQA website [www.nzqa.govt.nz](http://www.nzqa.govt.nz).

Students intending to study at university or other tertiary institutions need to take note of the requirements for entrance to university, particularly in literacy, numeracy and the domains from which courses need to be selected.

## NCEA endorsements

NCEA Certificate Endorsement
<p>Students require 50 credits at Excellence to gain an NCEA endorsed with Excellence or 50 credits at Merit (or Merit and Excellence), to gain an NCEA endorsed with Merit.</p> <p>Credits counting towards endorsement may be gained over more than one year and at more than one level, but must be gained at the level of the certificate or above.</p>
NCEA Course Endorsement
<p>Achieved, Merit or Excellence course endorsements are available. Students must have achieved 14 or more credits at Achieved or Merit or Excellence within a single year.</p> <p>For Course Endorsement, at least 3 of the 14 credits must be from internally assessed standards, and 3 from external assessment (national examinations), to demonstrate students are competent in both forms of assessment. A course endorsement can only be awarded in one calendar year.</p>

## National Certificates

In 2023 Year 12 and 13 students at MRGS will have the opportunity to study for National Certificates in 2 subjects:

- The National certificate in Building, Construction and Allied Trades Skills (BCTS). More information can be found in the Technology section.
- The National Certificate in Travel and Tourism. More information can be found in the Social Sciences section.

## Other useful information

### Key:

Subject coding e.g. 12ACC12B - Year 12 students taking Accounting studying both Level 1 & 2 standards									
<b>HOD discretion</b>		HOD may approve entry without requirement							
<b>INT</b>	Assessed internally				<b>EXT</b>	Assessed in the external examinations (Nov – Dec)			
<b>Lit</b>	Literacy	<b>Num</b>	Numeracy	<b>R</b>	Reading Credits	<b>W</b>	Writing Credits	<b>B</b>	Both <b>R</b> or <b>W</b> credits

## RECOMMENDED SUBJECTS FOR TERTIARY STUDY

**This list is to be used as a guide only. Please check the websites of the tertiary providers for the specific entry requirements for your course of study or see the Career Advisor. Some tertiary institutions have compulsory subject requirements or ranked scores and some have recommended or useful subjects. Where compulsory Year 13 subjects are required, it has been indicated below in bold. The subjects below are mostly for degree entry and are Year 13 subjects unless stated otherwise. This is accurate as at May, 2022.**

CAREER	RECOMMENDED SUBJECTS
Architecture	<b>Uni of Ak, AUT and Unitec - For your portfolio you need to include at least one of Painting, Design or Photography.</b> Digital Technology, Physics and Design and Visual Communication and Technology - Multi are useful. <b>Unitec – 8 credits in English at Level 2 and 12 credits in Mathematics at Level 2 are required for the Diploma in Architectural Technology and Graphics at Level 2 or 3 is useful.</b>
Art - Painting, Design, Design and Visual Communication, Photography	<b>For your portfolio you need to include one or more of Painting, Design, Photography or Design and Visual Communication.</b> Classics and English are very useful. In addition to the above Digital Technology or Computer Science and Technology - Multi Materials are useful for Design and Visual Communication.
Arts/Humanities	English, Classics, Languages, Drama, Economics, History, Media, Mathematics, Music, Geography and Te Reo are all useful subjects.
Automotive trades	<b>Unitec - 12 credits in English, Mathematics and Science at Level 1 are the minimum requirements for the pre-apprenticeship certificate</b> but Level 2 English and Mathematics are preferred. Trade Preparation/Technology - Multi Materials and Electronics are useful.
Aviation	<b>An English (English rich) subject is required.</b> Calculus and Physics are highly recommended and Statistics is useful.
Building/Carpentry trades	<b>Unitec - 10 credits in English and Mathematics at Level 1 are the minimum requirements for the pre-apprenticeship certificate</b> but Level 2 English and Mathematics are preferred. Trade Preparation/Technology – Multi Materials, Electronics and Exercise Prescription are useful.
Business/Commerce	Accounting, Economics, Calculus, Statistics, English and Computer Science/Digital Technology are highly recommended.
Chef/Catering	<b>AUT – One subject from Classics Studies, Drama, English, Geography, Health Education, History, Media Studies, Economics, Physical Education or Te Reo Maori is required for diploma entry.</b> English, Mathematics and Food Technology or Catering and Hospitality are useful.
Communications/Journalism/Media	<b>AUT – Any subject from Classical Studies, Drama, Economics, English, Geography, Health, History, Media Studies, Physical Education, or Te Reo Māori.</b>
Computer Science	<b>AUT –Calculus, Mathematics or Statistics, Digital Technologies/Computer Science and English are highly recommended.</b>
Defence Forces	<b>English and Mathematics at Level 2 are usually required</b> and Physical Education and Technology – Multi Materials as well as Science at Level 1 are useful. However, find out the exact entry requirements for your intended career in the forces on their website <a href="http://www.defencecareers.mil.nz">www.defencecareers.mil.nz</a>
Dentistry	<b>Biology, Chemistry, Physics, English (English rich) and Statistics (Calculus) are required.</b>
Education	Languages, Classics, Economics, English, Geography, History, Te Reo Maori and Mathematics are recommended. A good standard of oral and written English is important. Biology, Chemistry, Early Childhood Education, Art and Design, Dance, Drama, Digital Technologies, Health, Physics, Physical Education and Technology are useful.
Electrician	<b>Unitec – 12 credits in Level 1 English, Mathematics and Science are the minimum requirements for the pre-apprenticeship certificate.</b> Physics, Electronics, Trade Preparation/Technology - Multi Materials are useful.
Engineering	<b>Calculus and Physics are required.</b> Chemistry, Biology and English rich subjects are recommended. Electronics, Computer Science or Technology – Multi Materials are very useful
Fashion	<b>At least one of Design - Soft Materials, Painting, Photography and Design are required for the portfolio.</b> Classical Studies, Design and Visual Communication, English, Geography, History, Media Studies, Mathematics and Technology-Multi-Materials are useful.
Hairdressing	<b>English at Level 2 is required.</b> Mathematics and Art at Level 2 and Science at Level 1 are useful.
Law	Languages, Classical Studies, Economics, English, Geography, History and Te Reo Maori are recommended. A good standard of oral and written English is important. <b>AUT – Subjects that develop a very good standard of reading, oral and written English are preferred.</b>
Medicinal Chemistry	<b>Uni of Ak – Chemistry is required.</b> Biology, Physics, English, Classics, Geography and History are recommended. Calculus, Statistics or Mathematics are useful.
Medicine	<b>Uni of Ak – Bach of Health Science – One of English, Geography History, Classics or Te Reo Maori is required as well as Biology and Chemistry.</b> Health and Statistics are useful. <b>Uni of Ak - Bachelor of Science – Biomedical Science – Biology, Chemistry, Physics, English (English rich subject) Statistics or Calculus are required.</b> <b>Uni of Otago - Biology, Chemistry, Physics, and Statistics are required. English (English-rich subject) and Calculus are recommended.</b>
Nursing	<b>Uni of Ak – One of English, Geography History, Classical Studies or Te Reo Maori are required as well as Biology and Chemistry.</b> Health and Statistics are useful.

	<b>AUT – One subject from Biology, Chemistry or Physics is required.</b> English (English rich), Mathematics and Health are recommended. <b>Massey Uni – One of Biology, Chemistry or Physics is required.</b> English, Statistics and Health are useful. <b>A current First Aid Certificate is required on admission.</b>
Nursing (Continued)	<b>Unitec – 12 credits in one science subject at Level 2 or above is required.</b> English, Mathematics and Health are useful. <b>A current First Aid Certificate upon acceptance into the programme is required.</b>
Office Work/ Receptionist	<b>MIT –English, Mathematics, Digital Technologies, Business Practice as well as Catering and Hospitality at Level 2 are useful for the certificate.</b>
Oral Health	<b>AUT – Biology is required.</b> English (English rich), Health and Statistics are highly recommended. <b>Uni of Otago – Biology and English are required.</b> Health and Statistics are useful.
Optometry	<b>Uni of Ak - Bachelor of Science – Biomedical Science – Biology, Chemistry, Physics, English (English rich subject), Statistics or Calculus are required.</b>
Performing Arts	<b>You need at least one subject from Dance, Drama or Music for the audition.</b> English is highly recommended.
Pharmacy	<b>Uni of Ak – Bach of Health Science – One of English, Geography History, Classics or Te Reo Maori is required as well as Biology and Chemistry.</b> Health and Statistics are useful. <b>Uni of Ak - Bachelor of Science – Biomedical Science – Biology, Chemistry, Physics, and English rich, Statistics or Calculus are required.</b> <b>Uni of Otago - Biology, Chemistry, Physics, English (English rich subject), Statistics (Calculus) are required.</b>
Physiotherapy	<b>AUT – Biology is required.</b> Sports Science, English (English rich subject), Health and Mathematics are very useful. <b>Uni of Otago – Biology, Chemistry, Physics, English (English rich subject) and Statistics (Calculus) are required.</b>
Plumbing	<b>Unitec - 10 credits in English and Mathematics at Level 1 are the minimum requirements for the pre-apprenticeship certificate</b> but Level 2 English and Mathematics are preferred. Trade Preparation/Technology - Multi, Electronics and Exercise Prescription are useful.
Police	English, Mathematics, Digital Technology and Physical Education at Level 2 minimum are recommended. Catering and Hospitality is also useful. You must have your full driver's licence before you can apply for the Police.
Science	<b>Uni of Ak and AUT-</b> Relevant Science subjects, Statistics, Calculus, Mathematics, English (English rich subject), Digital Technology or Computer Science are highly recommended.
Social Work	<b>Uni of Ak -</b> Languages, Classical Studies, Economics, English, Geography, History, Biology, Chemistry, Physics, Technology, Mathematics and Te Reo Maori are recommended. A good standard of oral and written English is important.
Sport and Recreation	<b>AUT –</b> Classical Studies, Drama, English, Geography, Health, History, Media and either Physical Education or one subject from Biology, Chemistry, Physics or Calculus, Mathematics or Statistics are useful.
Sports Science/Exercise Science	<b>Uni of Ak –</b> Biology is recommended. Chemistry, Physics, Statistics and Sports Science are useful. <b>AUT –</b> Classical Studies, Drama, English, Geography, Health, History, Media and either Physical Education or one subject from Biology, Chemistry, Physics or Calculus, Mathematics or Statistics are useful.
Tourism	<b>English and Mathematics at Level 2 are required.</b> Digital Technology and Tourism at Level 3 are recommended while Geography, Business Practice and Catering and Hospitality are also useful for courses at private providers. <b>AUT –</b> Classical Studies, Drama, Economics, English, Geography, Health Education, History, Media Studies, Physical Education, and Te Reo Māori are useful.
Veterinary Nursing	<b>Unitec – 12 credits in English at Level 2 and 12 credits in Mathematics and Science at Level 1 are required</b> for the certificate. Biology, Digital Technology and Business Practice are useful. <b>Unitec – Two science subjects</b> at Level 3 are required and English, Statistics or Calculus at Level 3 are highly recommended for degree entry.
Veterinary Science	<b>Massey Uni – Biology and Chemistry are required.</b> Physics and Calculus or Statistics are recommended. English is useful.

### ACADEMIC ENGLISH LANGUAGE REQUIREMENT – UNIVERSITY OF AUCKLAND ONLY

Over and above all of these required/recommended subjects, the University of Auckland requires that students have 17 English credits at Level 2 and/or Level 3. If you do not have these credits, but have all the other entry requirements for your degree, the University of Auckland will give you entry into the degree but you will be required to complete an English course during your first year at university.

### ENGLISH RICH SUBJECTS – UNIVERSITY OF AUCKLAND AND UNIVERSITY OF OTAGO

English, Classical Studies, Geography, History or Te Reo Maori

### ENGLISH RICH SUBJECTS – AUT

Classical Studies, Drama, Economics, English, Geography, Health, History, Media Studies, Physical Education and Te Teo Maori.

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# Vocational Pathways

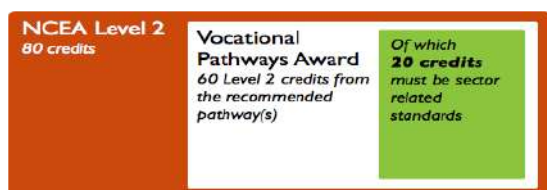
## What are the Vocational Pathways?

The Vocational Pathways provide new ways to achieve within NCEA Level 2 – the foundation for success in further education and the world of work. The pathways help students see how their learning and achievement is valued in the ‘real world’ by aligning the NCEA Level 2 Assessment Standards including specific ‘sector-related’ standards with six industries:

These six pathways represent ways to structure and achieve NCEA Level 2 by providing a more coherent framework for foundational vocational education; students can develop their own individual education plans, are better informed and able to make better choices to meet their goals.





## What is a Vocational Pathways Award?



The Vocational Pathways Award(s) will be awarded to students on their NZQA Record of Achievement. This will be a real advantage when they look for work and training opportunities in the sector.

## Subject Selection Help

Resource	Information	
<b>Subject Teachers, HODs &amp; Mentors</b>	<ul style="list-style-type: none"> <li>What the subject is about and some of the jobs it can lead to.</li> <li>Pathways advice</li> </ul>	
<b>Academic Deans</b>	<ul style="list-style-type: none"> <li>Academic Deans can assist students with subject selection.</li> <li>Book an appointment to see an one of the Academic Deans (Mrs Burns, Mr Hays, Mr Presland, Mr Coker, Mr Skiff)</li> </ul>	
<b>MRGS Career Department</b>	<ul style="list-style-type: none"> <li>The Career Department has a large range of resources to help with subject selection. See Miss Hodge in H4 <b>OR</b></li> <li>Book an appointment today to see the Career Advisor using this email – <a href="mailto:Ann.Hodge@mrgs.school.nz">Ann.Hodge@mrgs.school.nz</a></li> </ul>	
<b>MRGS Website</b> <a href="http://www.mrgs.school.nz">www.mrgs.school.nz</a>	<ul style="list-style-type: none"> <li>How to choose school subjects - To access click on ‘Academic’ on the home page – Career Essentials – How to choose school subjects.</li> <li>Also click on the Academic tab on the home-page, then ‘Academic Programmes booklets’ then the ‘Recommended Subjects for Tertiary Study’ pages in those booklets.</li> </ul>	
<b>Careers NZ</b> <a href="http://www.careers.govt.nz">www.careers.govt.nz</a>	<ul style="list-style-type: none"> <li>Check out the guide to choosing school subjects Make sure you confirm the specific tertiary entry requirements for courses you are interested in studying on the website of the tertiary provider. See the Career Advisor if you need help.</li> <li>There are great interactive tools such as Career Quest, Skill Matcher and Subject Matcher. These are starting points to help you discover jobs that may suit your interests and skills.</li> </ul>	 <a href="http://goo.gl/liKN0c">http://goo.gl/liKN0c</a>
<b>Youth Guarantee</b> <a href="http://www.youthguarantee.net.nz">www.youthguarantee.net.nz</a>	<ul style="list-style-type: none"> <li>Find out more about the new Vocational Pathways and what subjects businesses want you to take.</li> <li>Use the Profile Builder to enter your standards and build your Vocational Profile.</li> <li>Learn about educational opportunities and how to achieve higher level qualifications</li> </ul>	 <a href="http://goo.gl/ZZvPI0">http://goo.gl/ZZvPI0</a>
<b>Occupation Outlook</b> Download the app from iTunes or Google Play	A free app that gives you education, career, employment and income information on a wide range of jobs in New Zealand.	

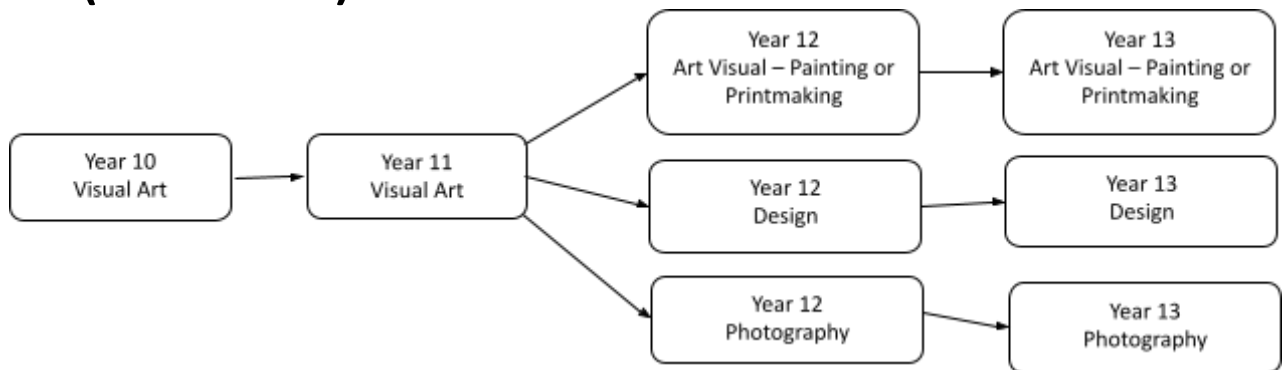


# Course Pathways

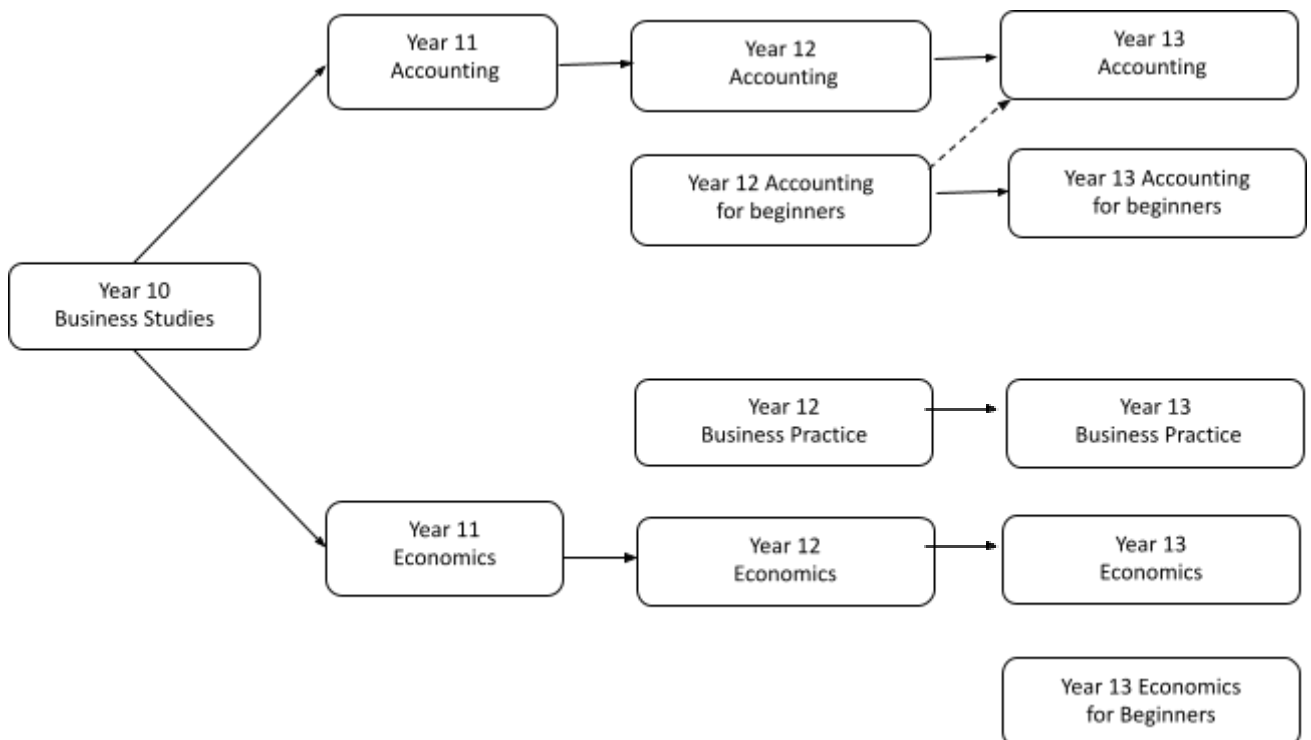
## Academy



## Art (Visual Arts)

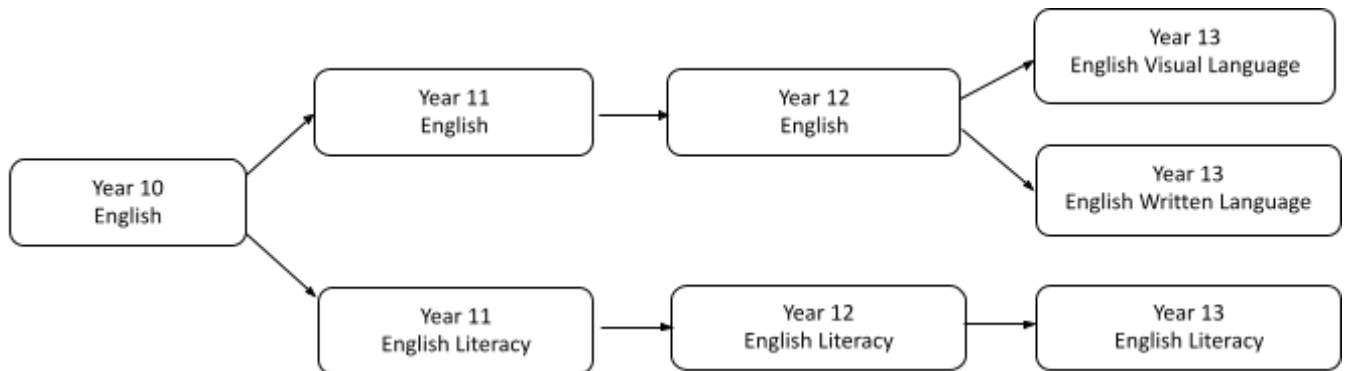


## Business and Commerce

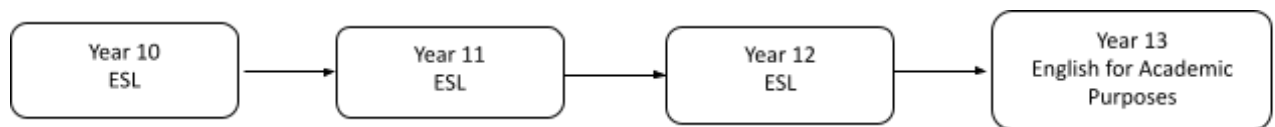


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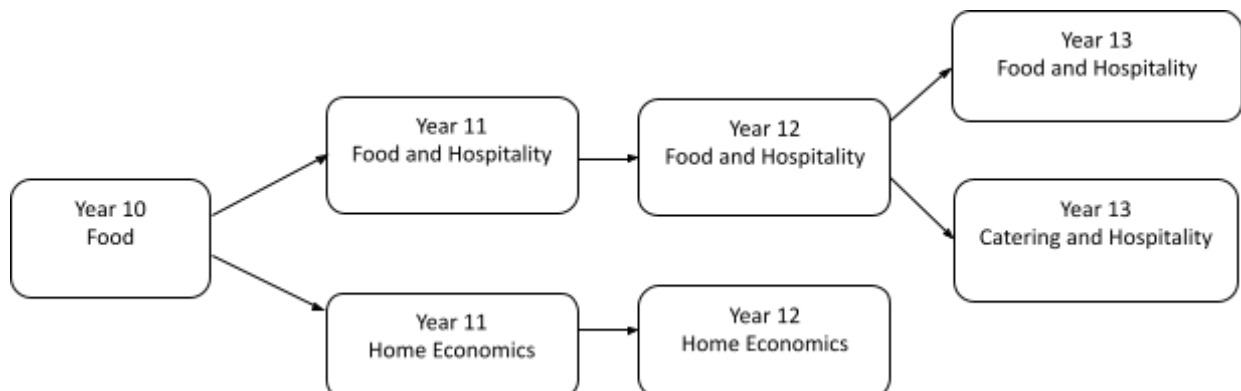
## English (Compulsory Years 9 – 12)



## English as a Second Language (ESL)



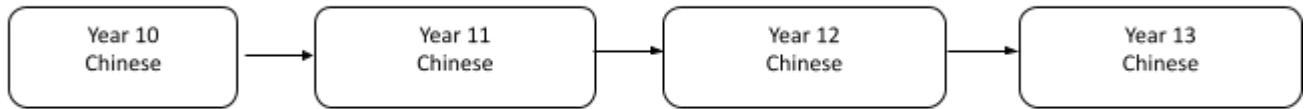
## Food and Hospitality



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# Languages

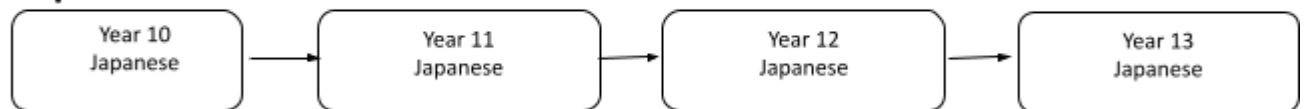
## Chinese



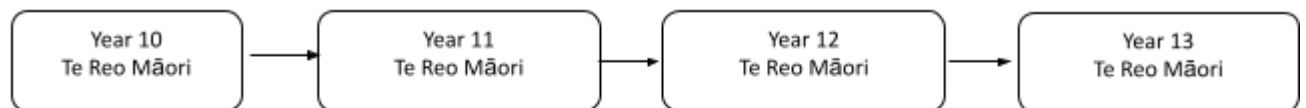
## French



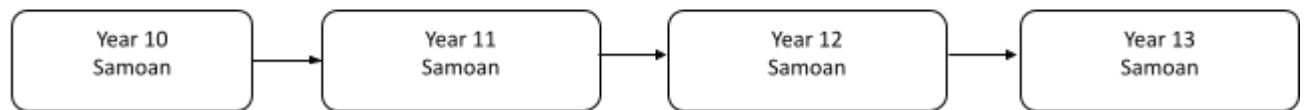
## Japanese



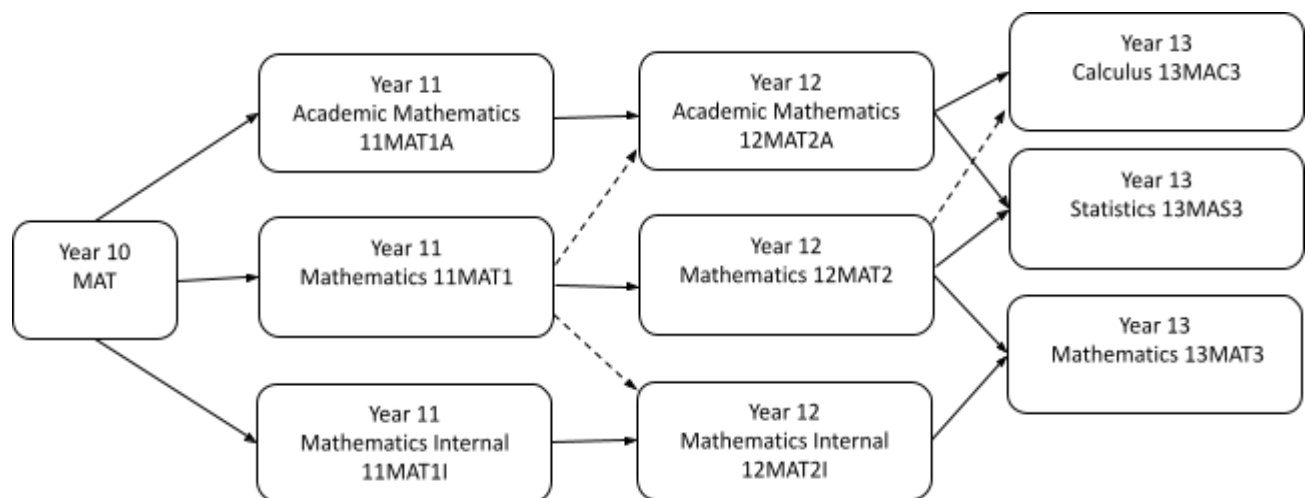
## Te Reo Māori



## Samoan



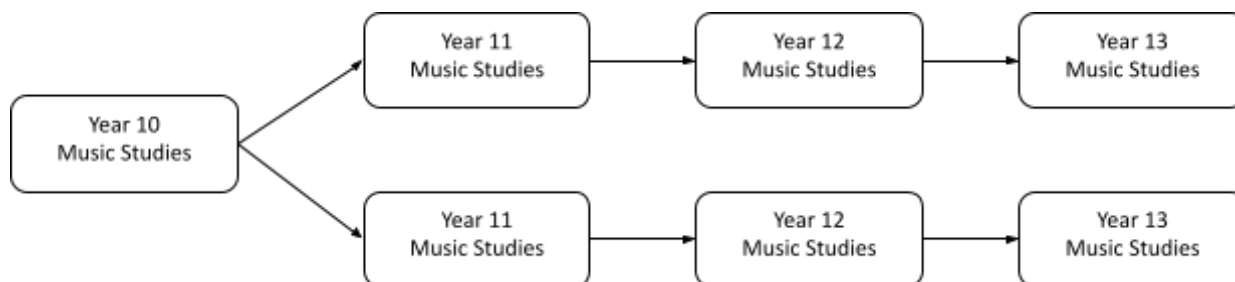
# Mathematics (Compulsory Years 9 – 11)



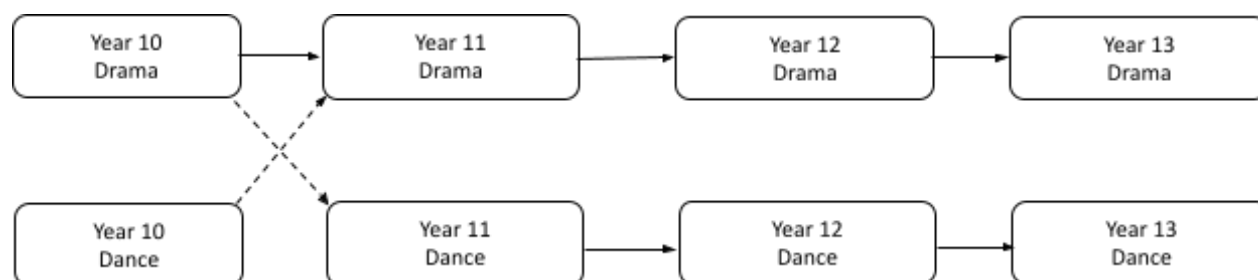
## Media Studies



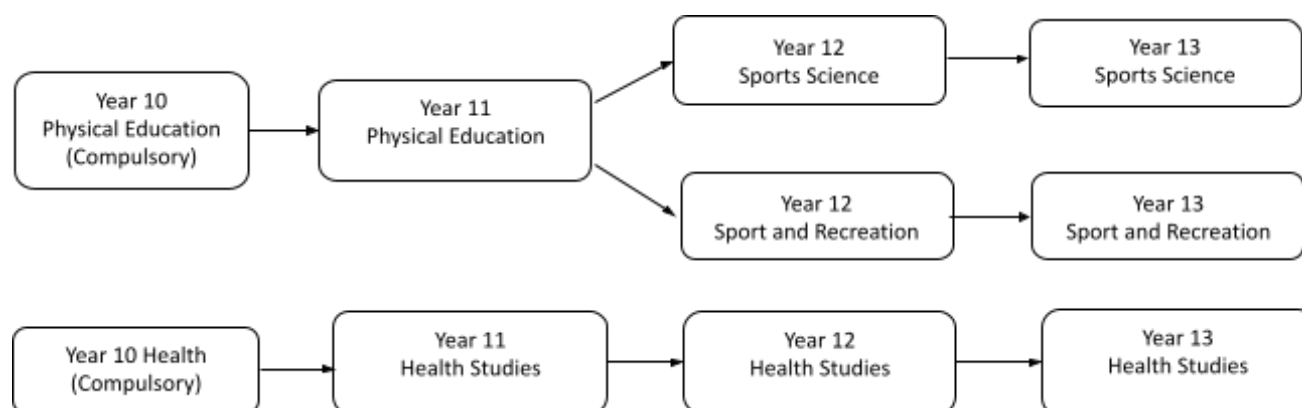
## Music



## Performing Arts

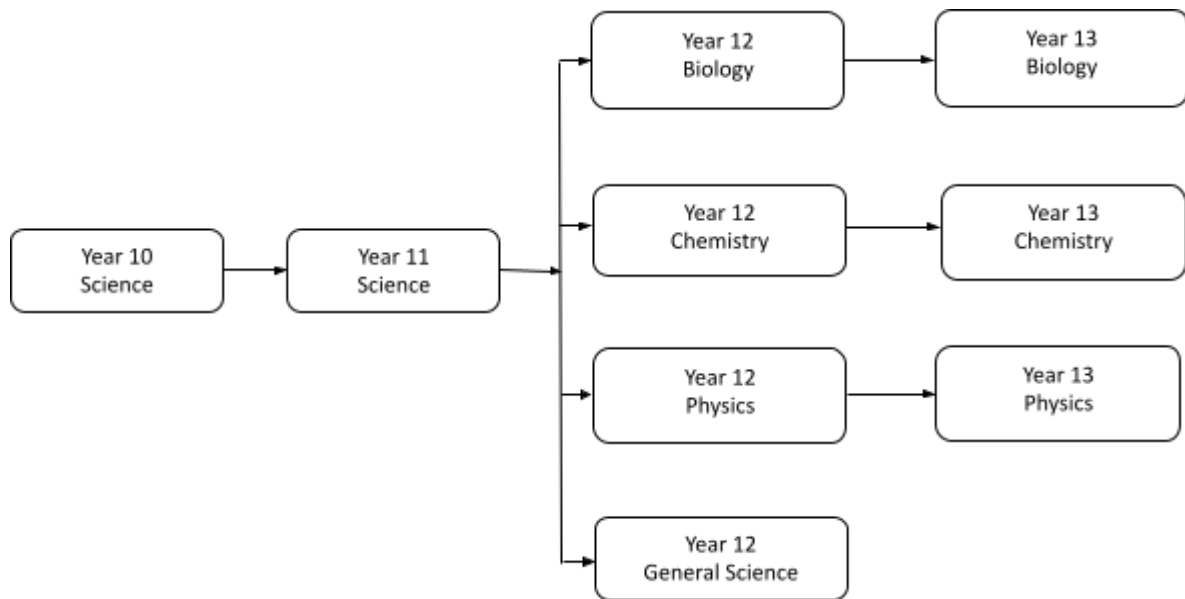


## Physical Education (Compulsory Years 9 – 10)

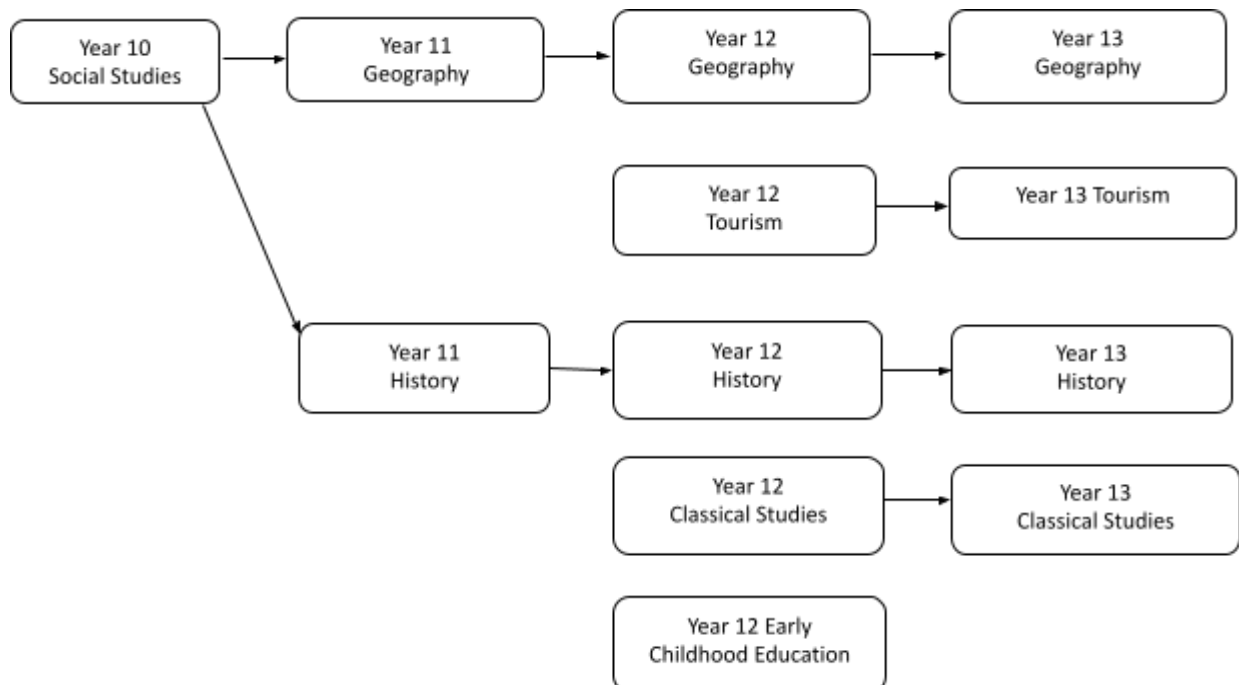


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## Science (Compulsory Years 9 – 10)

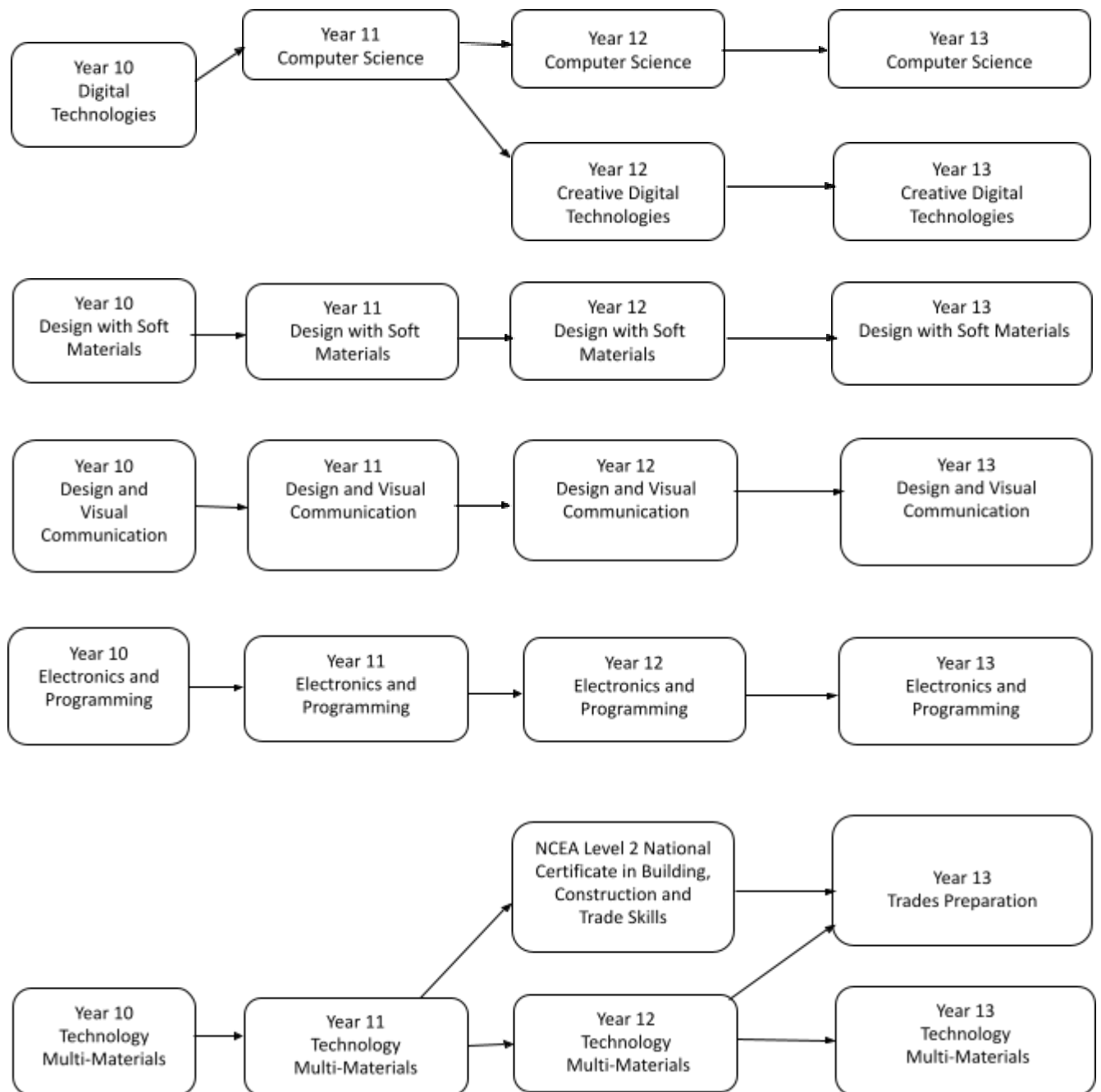


## Social Sciences (Compulsory Years 9 – 10)

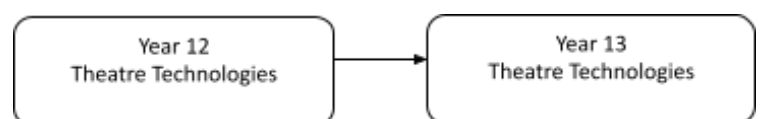


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# Technology



# Technology / Performing Arts



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# Course Description and Information

## Academies

# 10ACB

## Basketball

Academy Department

### Who is this course for?

We will continue to develop our skills and the tactical awareness to become a better Basketball player and have a better understanding of how to read and react to game situations including an in-depth understanding of the rules of Basketball. We will continue to develop the sports science principles discussed in the Year 9 Academy class. Throughout our passion for the game of Basketball, we will continue to focus on developing our writing skills and relate this to the writing requirements in our other subjects and for preparation for NCEA Level 1.

**This is a Semester 1 course only (Terms 1 and 2). You can select this now but placement will only be confirmed later this year for 2023 academies.**

### Entry Requirements

Successful completion of year 9 Basketball Academy or at discretion of TIC Basketball

### Topics

### So what will I be doing?

Skills based training	I will continue to develop the necessary skills e.g. offensive skills to be an effective Basketball player in game situations.
Fitness based training	I will continue to develop my personal fitness and understand the components of fitness so that I can effectively contribute to my Basketball games.
Tactics	I will continue to learn how to read and react to certain game situations e.g. pick and roll defence so that I can contribute to my team's overall goals effectively.
Rules	I will learn about and understand the rules of Basketball so that when I am in the senior school I am able to umpire junior games.
Sports Science	I will continue to work on understanding sports science principles e.g. sports nutrition so that I can develop my peak levels of performance.

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#### Who is this course for?

We will continue to develop our skills and the tactical awareness to become a better Football player and have a better understanding of how to read and react to game situations including an in-depth understanding of the rules of Football. We will continue to develop the sports science principles discussed in the Year 9 Academy class. Throughout our passion for the game of football, we will continue to focus on developing our writing skills and relate this to the writing requirements in our other subjects and for preparation for NCEA Level 1.

**This is a Semester 1 course only (Terms 1 and 2). You can select this now but placement will only be confirmed later this year for 2023 academies.**

#### Entry Requirements

Successful completion of year 9 Football Academy or at discretion of TIC Football

Topics	So what will I be doing?
Skills based training	I will continue to develop the necessary skills e.g. tackling to be an effective football player in game situations.
Fitness based training	I will continue to develop my personal fitness and understand the components of fitness so that I can effectively contribute to my football games.
Tactics	I will continue to learn how to read and react to certain game situations e.g. corner defence so that I can contribute to my team's overall goals effectively.
Rules	I will learn about and understand the rules of football so that when I am in the senior school I am able to umpire junior games.
Sports Science	I will continue to work on understanding sports science principles e.g. sports nutrition so that I can develop my peak levels of performance.

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#### Who is this course for?

We will continue to develop our skills and the tactical awareness to become a better hockey player and have a better understanding of how to read and react to game situations including an in-depth understanding of the rules of hockey. We will continue to develop the sports science principles discussed in the Year 9 Academy class. Throughout our passion for the game of hockey, we will continue to focus on developing our writing skills and relate this to the writing requirements in our other subjects and for preparation for NCEA Level 1.

**This is a Semester 1 course only (Terms 1 and 2). You can select this now but placement will only be confirmed later this year for 2023 academics.**

#### Entry Requirements

Successful completion of year 9 Hockey Academy or at discretion of TIC Hockey

Topics	So what will I be doing?
Skills based training	I will continue to develop the necessary skills e.g. tackling to be an effective hockey player in game situations.
Fitness based training	I will continue to develop my personal fitness and understand the components of fitness so that I can effectively contribute to my hockey games.
Tactics	I will continue to learn how to read and react to certain game situations e.g. penalty corner defence so that I can contribute to my team's overall goals effectively.
Rules	I will learn about and understand the rules of hockey so that when I am in the senior school I am able to umpire junior games.
Sports Science	I will continue to work on understanding sports science principles e.g. sports nutrition so that I can develop my peak levels of performance.

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#### Who is this course for?

We will continue to develop our skills and the tactical awareness to become a better Rugby player and have a better understanding of how to read and react to game situations including an in-depth understanding of the rules of Rugby. We will continue to develop the sports science principles discussed in the Year 9 Academy class. Throughout our passion for the game of Rugby, we will continue to focus on developing our writing skills and relate this to the writing requirements in our other subjects and for preparation for NCEA Level 1.

**This is a Semester 1 course only (Terms 1 and 2). You can select this now but placement will only be confirmed later this year for 2023 academies.**

#### Entry Requirements

Successful completion of year 9 Rugby Academy or at discretion of TIC Rugby

Topics	So what will I be doing?
Skills based training	I will continue to develop the necessary skills e.g. tackling to be an effective Rugby player in game situations.
Fitness based training	I will continue to develop my personal fitness and understand the components of fitness so that I can effectively contribute to my Rugby games.
Tactics	I will continue to learn how to read and react to certain game situations e.g. Goal line defence so that I can contribute to my team's overall goals effectively.
Rules	I will learn about and understand the rules of Rugby so that when I am in the senior school, I am able to referee junior games.
Sports Science	I will continue to work on understanding sports science principles e.g. sports nutrition so that I can develop my peak levels of performance.

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# Art (Visual Arts)

## 10ART

### 10 Visual Art

Arts Department

#### Who is this course for?

Students who are curious about Art and want to expand their practical skills and knowledge in a range of Art disciplines to express their ideas.

#### Entry Requirements

None

Topics	So what will I be doing?
Drawing	I will explore many different ways artists draw and how I can use drawing methods to represent reality, record ideas and develop my initial concepts, with a range of art materials and tools.
Painting	I will learn skills and select methods and techniques of using paint to explore topics that matter to me, people that are part of my culture and other cultures.
Printmaking	I will learn practical skills in a variety of printmaking techniques, find out how printmakers in New Zealand and other countries work and apply what I have learnt to develop and express my own ideas.
Photography	I will learn practical skills in using photographic equipment as well as digital platforms to create and manipulate photographic images.
Sculpture	I will use a range of mediums to explore a range of approaches to Visual Art in three dimensions.

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# Business and Commerce

## 10BUS

### 10 Business Studies

Commerce Department

#### Who is this course for?

This course builds on the knowledge gained in Year 9 Financial Education and incorporates these principles in both an individual and business context. This course will also provide an introduction to Accounting and Economic concepts and practices studied in these NCEA Level One subjects.

#### Entry Requirements

None

#### Topics

#### So what will I be doing?

#### Economics (incorporating financial education)

I will learn about people's buying behaviour and why people make the decisions that they do.

#### Enterprise (incorporating financial education)

I will learn what it takes (the qualities and skills) to become an enterprising person so that I am able to start my own business

#### Marketing

I will learn how a business effectively gets their product into the hands of the consumer by using marketing plans.

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# Food and Hospitality

## 10FOD

### 10 Food

Food and Hospitality Department

**Who is this course for?**

Students who are keen to learn the theory and practical aspects of preparing and cooking, both meals and baked products, and finding out about foods from other cultures.

**Entry Requirements**

None

**BYOD Recommendations**

An internet capable device, such as a Chromebook or better

**Topics**

**So what will I be doing?**

**Let's Cook**

I will make a range of meals while learning about nutrition.

**Cultural Influences in Food**

I will research about food from a culture or country of my choice.  
I will prepare and experience food from different cultures.

**Baking**

I will apply safe practice and use different raising agents in the making of bread, choux pastry and cupcakes.

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# Languages

## 10CHN

### 10 Chinese

Languages Department

#### Who is this course for?

The course continues on from the Year 9 programme and is an entry requirement for Year 11. Pupils move from basic communication to speaking about everyday situations in Chinese. Pupils who have not done Year 9 Chinese but who already speak some Chinese are welcome to join and extension work will be provided for those students. Students want to be able to talk about themselves in Chinese and have conversations in Chinese in normal everyday situations. Students who do this course want to have skills and knowledge in another International language and culture so as to have a global outlook and advantage in their education. They also want to experience the fun, enjoyment and opportunities of discovering another language and culture.

**This is a full year course.**

#### Entry Requirements

Year 9 Chinese (or students with a prior knowledge of Chinese)

#### Course Costs

Optional activities/trips

Topics	So what will I be doing?
<b>An overview of how to introduce yourself.</b>	<ul style="list-style-type: none"> <li>You will be watching native Chinese speakers introducing themselves in videos, listening to instructions given in Chinese by your teacher, who is a native speaker, and introducing yourselves in Chinese</li> <li>You will be required to finish a project named 'Self-Introduction in Chinese'</li> <li>You will be participating in fun activities such as games, internet surfing, calligraphy, cultural food making and possibly a day trip</li> </ul>
<b>Colours, Sizes, Adjectives and Pets</b>	<ul style="list-style-type: none"> <li>You will be learning how to describe yours or your friend's pets in Chinese and learning to socialise using this related topic in Chinese</li> </ul>
<b>Likes, Dislikes and Professions</b>	<ul style="list-style-type: none"> <li>You will be learning how to tell your likes and dislikes and to relate the expressions to jobs and professions</li> <li>This builds your confidence in giving your opinions relating to job preference</li> </ul>
<b>Time and Daily Routine</b>	<ul style="list-style-type: none"> <li>You will be learning how to ask and tell the time and describe your daily routine in Chinese</li> <li>This unit will be finished with your video project of Telling about a Daily Routine</li> </ul>
<b>Food and Food-Related Intercultural knowledge</b>	<ul style="list-style-type: none"> <li>You will be learning intercultural knowledge relating to Chinese cultural food, expressing your likes and dislikes about food</li> <li>You will make Chinese dumplings and spring rolls</li> <li>You will learn about Lunar Chinese New Year and traditions</li> </ul>
<b>Sports</b> (A Topic using a combination of subtopics: date, time, likes and dislikes, and etc.)	<ul style="list-style-type: none"> <li>You will learn how to talk about your favourite sport in Chinese</li> <li>You will be able to describe your sports routine in Chinese</li> <li>You will be able to invite your friends over in Chinese to play your favourite sport, and do other activities</li> </ul>
<b>Houses, Rooms and Furniture</b>	<ul style="list-style-type: none"> <li>You will learn different types of houses, names of rooms in the house</li> <li>You will learn names of furniture in your rooms</li> <li>You will be able to describe your own house with details of rooms &amp; furniture in Chinese</li> </ul>
<b>Clothes, Fruits and Shopping</b>	<ul style="list-style-type: none"> <li>You will learn names of clothes and fruits</li> <li>You will learn bargaining strategies in Chinese culture</li> <li>You will be able to do shopping in China once you are there</li> </ul>

#### Who is this course for?

The course continues on from the Year 9 programme and is an entry requirement for Year 11. Pupils move from basic communication to speaking about everyday situations in French. Students will be motivated to learn about cultural aspects including food, school, Paris metro travel, districts of Paris, holidays as well as take part in a French Café trip. Pupils will be able to talk about themselves in French and have conversations in French in normal everyday situations. Students who do this course will have skills and knowledge in another International language and culture so as to have a global outlook and advantage in their education. They also want to experience the fun, enjoyment and opportunities of discovering another language and culture.

**This is a full year course.**

#### Entry Requirements

Year 9 French

#### Course Costs

Optional activities/trips

Topics	So what will I be doing?
Daily Routine and School	<ul style="list-style-type: none"> <li>Say what you do and study at school</li> <li>Give your opinions about school and school subjects (like, dislike)</li> <li>Discover what the beginning of the school year is like in France</li> <li>Talk about your daily routine</li> <li>Prepare a 1-page fold-up booklet with pictures illustrating and writing about your daily and weekly activities</li> </ul>
Shopping	<ul style="list-style-type: none"> <li>Talk about what you wear (item, style, colour, price) in different seasons</li> <li>Talk about buying items in a shop / department store</li> <li>Revise numbers</li> </ul>
Travel and Going on Trips	<ul style="list-style-type: none"> <li>Talk about a trip or camp you are going on</li> <li>Talk about activities during a camp/trip and the rules at the camp</li> <li>Talk about the weather</li> <li>Talk about feelings including being hungry, thirsty, hurting somewhere</li> <li>Write a short postcard to your friends about your trip</li> <li>Discover famous “quartiers” of Paris: e.g. Latin Quarter, Montmartre</li> </ul>
Talking about things you have done	<ul style="list-style-type: none"> <li>Gain confidence in communicating in the past about what you have done, where, what activities, with whom</li> <li>Learn how to link expressions together and give opinions</li> <li>Gain confidence in being creative in your writing</li> </ul>
Comparing people and things and Holidays	<ul style="list-style-type: none"> <li>Describe people (physical and personality)</li> <li>Use expressions to compare people or things</li> <li>Learn about how the French celebrate holidays including the Fête Nationale (Bastille Day) – similarities and differences to NZ</li> </ul>
Talking about what you want to do, can do and know how to do and the French Revolution	<ul style="list-style-type: none"> <li>Use special words to express feelings about what you want or do not want to do, can or cannot do, know how or do not know how to do</li> <li>Express yourself in a polite way to people you do not know</li> <li>Discover key points about the French Revolution and watch the “Scarlet Pimpernel” film</li> </ul>
Talking on the phone/mobile phone and Giving Directions	<ul style="list-style-type: none"> <li>Knowing the correct way to speak on the phone</li> <li>Speak on the phone / cell phone to friends or people you do not know</li> <li>Ask and give permission (especially during a phone call)</li> <li>Being able to say where something is</li> <li>Ask for and give accurate directions</li> </ul>
Writing to a penpal in France	<ul style="list-style-type: none"> <li>Talk about what you are like (physical, personality) and ask for information</li> <li>Talk about your favourite music groups, TV programmes</li> <li>Talk about your favourite leisure activities and sports</li> </ul>

#### Who is this course for?

The course continues on from the Year 9 programme and is an entry requirement for Year 11. Pupils move from basic communication to speaking about everyday situations in Japanese. We will learn a new script, Katakana. We also learn cultural aspects, make booklets, watch Japanese anime, do origami folding and eat Japanese food. Pupils will be able to talk about themselves in Japanese and have conversations in Japanese in normal everyday situations. Students who do this course will have skills and knowledge in another International language and culture so as to have a global outlook and advantage in their education. They also want to experience the fun, enjoyment and opportunities of discovering another language and culture.

**This is a full year course.**

#### Entry Requirements

Year 9 Japanese

#### Course Costs

Optional activities/trips

Topics	So what will I be doing?
Japanese House	<ul style="list-style-type: none"> <li>Name items in a traditional Japanese room</li> <li>Say what things are and are not</li> <li>Say what I like and dislike</li> <li>Say how I feel about various things</li> <li>Use a number of phrases commonly used in Japanese homes</li> </ul>
Food and Drink	<ul style="list-style-type: none"> <li>Make suggestions and make a polite request</li> <li>Order items in shops</li> <li>Recognise and use polite expressions to do with shopping</li> </ul>
Shopping	<ul style="list-style-type: none"> <li>Use numbers 100 - 10,000</li> <li>Say how many items there are</li> <li>Say that I am buying, drinking something</li> <li>Say how much things cost</li> <li>Recognise and use polite expressions to do with accepting/declining food or drink</li> </ul>
Making Arrangements To Do Things	<ul style="list-style-type: none"> <li>Describe daily routine</li> <li>Say where an activity is taking place</li> <li>Name various types of the shops</li> <li>Extend the use of time words</li> </ul>
Travel and Ownership	<ul style="list-style-type: none"> <li>Name various modes of transport</li> <li>Say what mode of transport I use</li> <li>Say I am going from one place to another</li> <li>Say who I am going with</li> <li>Say who something belongs to</li> </ul>
Homestays and Location of Things	<ul style="list-style-type: none"> <li>Use location words to say where something is</li> <li>Say where someone/something is</li> <li>Give the reason I am doing something</li> <li>Name different shops/public buildings</li> </ul>
Asking Permission and Talking About What You Are Doing	<ul style="list-style-type: none"> <li>Make a polite request</li> <li>Ask and give permission</li> <li>Say what I am doing right now</li> </ul>

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#### Who is this course for?

This course is designed as an extension from the year 9 programme but is open to any student who shows a passion in learning Te Reo Māori at this level. Students will learn a wide range of new structures to indicate tense, build on vocabulary and extend knowledge on Te Ao Māori *the Māori world*. Learn the importance and take part in important Māori culture aspects, calendar events and celebrations; Powhiri, Kapahaka, Matariki. Te Reo Māori and Tikanga go hand in hand, and the Year 10 course teaches students to understand the importance of both. This course is designed to build the sound foundation required to be successful in Level 1 NCEA and opens up a whole new world of opportunities.

**This is a full year course.**

#### Entry Requirements

Year 9 Te Reo Māori

#### Course Costs

Optional activities/trips

Topics	So what will I be doing?
<b>Whakataki</b> <i>Introduction and Foundation</i>	<ul style="list-style-type: none"> <li>● Revise and re-cap structures and vocabulary from Year 9</li> <li>● I will learn about my whakapapa is and its importance</li> <li>● I will research and present my whakapapa to the class</li> </ul>
<b>Tūrangawaewae</b> <i>A place to stand</i>	<ul style="list-style-type: none"> <li>● I will learn the importance of Pepeha</li> <li>● I will research and present my Pepeha</li> <li>● Learn the importance of knowing where I come from</li> </ul>
<b>Te Tiriti o Waitangi</b> <i>The Treaty of Waitangi</i>	<ul style="list-style-type: none"> <li>● Learn about the Treaty of Waitangi from a Māori perspective</li> <li>● Learn of the impact the Treaty had on Māori</li> <li>● Learn about the differences between the Māori and Pākehā versions of the Treaty</li> <li>● Create a class treaty</li> </ul>
<b>Marae and Pōwhiri</b> <i>Traditional Meeting House and surrounding buildings and Traditional Māori Welcome.</i>	<ul style="list-style-type: none"> <li>● Learn about the different buildings that make up a Marae</li> <li>● Learn the parts of a Marae and the Tikanga associated with it</li> <li>● The importance of Tūrangawaewae</li> <li>● The stages of a pōwhiri and demonstrate my understanding of each stage</li> <li>● What a hangi is and how it is prepared</li> </ul>
<b>Matariki The Māori New Year</b>	<ul style="list-style-type: none"> <li>● Name and pronounce the 7 stars that make up Matariki</li> <li>● Understand the importance of using stars for navigation</li> <li>● Learn, compare and contrast ways to celebrate Matariki</li> </ul>
<b>Kīwaha and Whakataukī Phrases and Proverbs</b>	<ul style="list-style-type: none"> <li>● At least 10 Māori proverbs</li> <li>● The importance and correct situations to use</li> <li>● Meanings and origin of some proverbs</li> <li>● Specific proverbs and their tribal affiliations</li> </ul>
<b>Whakaahuatanga</b> <i>Describing people, places and animals</i>	<ul style="list-style-type: none"> <li>● Learn how to give an in depth description of people</li> <li>● Learn how to verbally convey the characteristics of a person</li> </ul>
<b>Te Rā me te Wā</b> <i>Date and Time</i>	<ul style="list-style-type: none"> <li>● Days of the week and months of the year</li> <li>● How to ask and tell the time</li> <li>● Be able to convey information about an event</li> </ul>
<b>Ngā Tohu wā</b> <i>Tenses</i>	<ul style="list-style-type: none"> <li>● Learn which structure is relevant to use for each tense</li> <li>● Learn the formula for past, present and future sentences</li> </ul>
<b>Taku Kura</b>	<ul style="list-style-type: none"> <li>● Use target language to give details on everyday activities</li> <li>● Communicate favourite and least favourite subjects</li> <li>● Express interest in extra-curricular activities</li> </ul>

### Who is this course for?

The course continues on from the Year 9 programme where the values of Fa'aaloalo (Respect), Tautua (Service) and Alofa (Love) are incorporated into the programme throughout the year. Interested students at Year 10 who know some Samoan may also join the class even though they have not taken the language at Year 9. Students who do this course want to have skills and knowledge in another language and culture so as to have a global outlook and advantage in their education. They also want to experience the fun, enjoyment and opportunities of discovering another language and culture.

**This is a full year course.**

### Entry Requirements

Year 9 Samoan (or students with a prior knowledge of Samoan)

### Course Costs

Optional activities/trips

Topics	So what will I be doing?
<b>O a`u ma lo`u Āiga</b> <b>Me and my Family</b>	Use of basic and complex Gagana Samoa structure to: <ul style="list-style-type: none"> <li>● Introduce self and family</li> <li>● Say family members</li> <li>● Learn numbers</li> <li>● Construct sentences</li> </ul>
<b>Nu`u</b> <b>Samoan Community</b>	Why being raised by the following are all significant in a Samoan person's upbringing: <ul style="list-style-type: none"> <li>● Immediate Family</li> <li>● Extended Family</li> <li>● Village (Congregation, if living in New Zealand)</li> </ul>
<b>Fa`asinomaga</b> <b>Identity</b>	Why identity is significant for all
<b>Matai Samoa</b> <b>Chief System</b>	Significance of Matai within: <ul style="list-style-type: none"> <li>● Immediate Family</li> <li>● Extended Family</li> <li>● Village (Congregation, if living in New Zealand)</li> </ul>
<b>La`ei Samoa</b> <b>Traditional Wear</b>	The importance of: <ul style="list-style-type: none"> <li>● Everyday Wear</li> <li>● Special Occasions</li> <li>● Accessories</li> </ul>
<b>Siva ma Fa`afiafiaga</b> <b>Performing Arts</b>	Different types of: <ul style="list-style-type: none"> <li>● Siva Samoa</li> <li>● Festivals (in both Samoa and New Zealand)</li> <li>● Why these are important</li> </ul>
<b>Meataumafa ma tapenga</b> <b>Food and Meal Preparation</b>	Building new vocabulary other than everyday Gagana Samoa and using respectful Gagana Samoa to: <ul style="list-style-type: none"> <li>● Vala`au</li> <li>● Folafola</li> </ul>
<b>Vala`aulia</b> <b>Invitation</b>	The use of different Gagana Samoa to different people of different social status.

# Media Studies

## 10MED

### 10 Media Studies

Media Studies Department

#### Who is this course for?

Year 10 Media Studies introduces students to what the media is and the role the media plays in our lives.

Over two terms you will:

- Learn the language of film and how to use it to create your own media products.
- Learn how to use production technology (camera, tripod and editing software).
- Plan and produce a public service announcement.
- Study the features of a film genre.
- Create a 'sweded' movie.

Media Studies includes lots of opportunities for thinking, working collaboratively and strengthening your communication skills.

The subject is offered at years 10, 11, 12 and 13 and Scholarship. It can lead to a career or qualification in Communications, Journalism, Film and/or Television at university and other tertiary institutions.

#### Entry Requirements

None

#### BYOD Recommendations

The department has computers and Adobe Creative Cloud for editing. Students can edit on their own devices, provided they have a suitable editing programme installed.

Topics	So what will I be doing?
Genre Study	I will study the conventions of a specific genre. I will show my understanding by creating my own concept for a genre film or TV series and pitching it to the class.
Create a Public Service Announcement	I will work collaboratively to plan, film and edit a PSA video about an issue of concern to the wider school community.
Sweded Film	I will work collaboratively to create a "sweded" film based on an existing movie that shows awareness of the conventions of "sweded" movies.

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# Music

## 10MUS

### 10 Music Studies

Music Department

#### Who is this course for?

Students who can read and write music to at least a basic level and who wish to improve their skills on an instrument.

**This is a full year course.**

#### Entry Requirements

Successful completion of Year 9 Music or by audition.

#### BYOD Recommendations

A Chromebook or laptop computer

Topics	So what will I be doing?
<b>Solo Performance</b>	I will practise daily at home, attend weekly lessons on an instrument and perform a piece in front of a small audience.
<b>Group Performance</b>	I will rehearse with my group in class time to prepare a piece and perform this in front of a small audience.
<b>Theory Knowledge</b>	I will extend my knowledge of reading and writing music then sit written tests that track my progress throughout the year.
<b>Musical Knowledge</b>	I will learn about the context of different pieces of music and musicians and will complete assessment tasks that demonstrate my understanding of the musical elements.
<b>Music Technology</b>	I will learn to use sequencing and notation software and demonstrate this knowledge by completing a sequencing software and a notation software assignment. I will use these skills to compose music.
<b>Composition</b>	I will create short pieces based on the styles of music studied in musical knowledge and using the skills gained in music technology.

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# Performing Arts

## 10DAN

### 10 Dance

Performing Arts Department

#### Who is this course for?

This course is for students who are excited about learning dance styles, creating dance, watching dance and responding to performance. Students will learn how to tell stories through dance and how to be an effective group member. There is a heavy practical component to this course, meaning that most assessments are 'on your feet' and performed. Students are assessed on their own performance but are assessed in groups so attendance is very important.

#### Entry Requirements

None

#### Topics

#### So what will I be doing?

<b>Perform dance</b>	I will learn group dances from a variety of contexts and styles. I will work towards performing dance to communicate ideas and improve my dance technique.
<b>Compose dance</b>	I will select and apply the dance elements to extend my personal movement vocabulary to create a group dance. I will experiment with movement that feels familiar to me and modify this to create a new movement that is effective and creative.
<b>Understand a dance style or genre</b>	I will explore and describe how dance is used in a variety of contexts and find out how dance has influenced a variety of cultures.
<b>Respond to dance</b>	I will describe and record how the elements of dance are used and how ideas are expressed through movement.

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# 10DRA

## 10 Drama

Performing Arts Department

### Who is this course for?

This course is for students who are excited about learning how to act, create drama and watch theatre. Students will learn how to tell stories through drama and how to be an effective group member as well. There is a heavy practical component to this course, meaning that most assessments are 'on your feet' and performed, and there is a small written component too. Students are assessed on their own performance but are assessed in groups so attendance is very important.

### Entry Requirements

None

### Topics

### So what will I be doing?

<b>Perform a Role</b>	I will learn to create roles for specific contexts while working in a group. I will learn about how my body and voice can be used to express ideas and situations. I will experiment in growing my confidence which will not only be helpful in Performing Arts but in all of my learning.
<b>Devising Drama</b>	I will create drama in groups and pairs which will aim to deliver an intention for a specific audience. This work will be performed to an audience and I will have the opportunity to design props or costumes for this. I will be expected to work collaboratively, using the drama elements and conventions, showing my understanding of these in performance.
<b>Chorus and Ensemble Skills</b>	I will learn how to perform in an ensemble, creating a piece of drama as a class. I will learn skills as a chorus member, which means a group of actors who provide information or act as a collective.
<b>Designing Technologies</b>	I will learn how to design theatre technologies including props and costumes. I will design these in a group and then create this to present to our class, also learning about a famous play while doing it.

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# Technology

## 10DGT

### 10 Digital Technologies

Technology Department

#### Who is this course for?

Students who enjoy problem solving, learning programming and digital media skills and applying knowledge to creative projects.

#### Entry Requirements

None

#### Topics

#### So what will I be doing?

Digital Media

I will learn project planning, image editing and media creation skills through web design and google tools.

Programming and Computational thinking

I will learn computational thinking and programming skills through practical projects.

Computer Game Project

I will learn to program my own game.

## 10DSM

### 10 Design with Soft Materials

Technology Department

#### Who is this course for?

This course is for students who are interested in design, enjoy practical, hands-on learning experiences and want to learn how to design and construct their own garments and soft materials products. Students will develop a wide range of fundamental transferable design skills as well as foundational construction skills. This course leads on to Design with Soft Materials at NCEA levels 1, 2 and 3 as well as Scholarship.

#### Entry Requirements

None

#### Topics

#### So what will I be doing?

Developing visual communication knowledge and skills

I will be learning about and exploring different visual communication techniques and media (sketching, modelling/toiling and pattern drafting) so I can express and explore my own design ideas.

Understanding and undertaking the stages of a design process

I will learn about the design process and how designers use all sorts of research and information to help them make good decisions. Then I'll apply this to designing a product for myself or someone else.

Soft materials construction skills

I will learn about and practise a range of construction techniques and then work out which ones to apply as I construct my own product.

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# 10DVC

## 10 Design and Visual Communication

Technology Department

### Who is this course for?

This course is for students who are interested in the design of products and spaces and who want to develop a wide range of fundamental, transferable design skills. Students will work within Product and Spatial design contexts exploring their own design ideas through sketching and modelling both digitally and using our laser cutter. For students who wish to further their studies in DVC, this course provides the basis and opportunity to progress on through to NCEA Levels 1, 2, 3 and Scholarship.

### Entry Requirements

None

### Topics

### So what will I be doing?

#### Developing visual communication knowledge and skills

I will be learning about and exploring different visual communication techniques and media (sketching, physical modelling and digital modelling and rendering) so I can express and explore my own design ideas.

#### Understanding and undertaking the stages of a design process

I will learn about the design process and how design can enhance the human experience. I will explore the aesthetic and functional qualities of an idea as I undertake a design process that addresses a challenging design issue.

#### Developing a visual presentation to exhibit my own design outcome

I will document and celebrate my design journey in this course by creating an exhibit that presents my design outcomes and parts of my design process.

# 10TCE

## 10 Electronics and Programming

Technology Department

### Who is this course for?

This course is for students who want to learn about, utilise and create their own electronic systems. Students will develop and prototype innovative electronic design solutions that address real world design issues or opportunities.

### Entry Requirements

None

### Topics

### So what will I be doing?

#### Develop a project that includes a sensor and user interface display to meet a client's needs.

I will learn to design and construct your own microprocessor-based outcome to meet a design brief. I'll learn to use resistant materials, to present the user interface and house the microcontroller and associated subsystems for my product.

#### A series of tasks and games designed to build foundation knowledge and skills suffice to complete the project.

I will learn Foundational knowledge and skills including:

- Using and programming a micro- controllers.
- Using the Technology Design Process.
- Use of resistance materials and workshop practice to construct a housing/ enclosure.
- Use of resistance materials and components to assemble an electronic sensor, microprocessor and user interface display

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# 10TMM

## 10 Technology Multi-Materials

Technology Department

### Who is this course for?

This is a course for students who enjoy design and problem solving and want to experience working with resistant materials such as timber, metal, fabrics, acrylic etc. to construct prototypes of their own design ideas. In this course students shift between the design studio and workshop as they develop design solutions that address a real life need or opportunity.

### Entry Requirements

None

### Topics

### So what will I be doing?

#### Prototype Design

I will learn about the design process and how design can enhance the human experience. I will learn about the different types of research and information that are drawn on to make good design decisions as I develop a design idea and then prototype it.

#### Marking, cutting and using a variety of materials

I will learn about material properties and how they determine how and why a material might be used. Then I will apply this knowledge as I make decisions about the materials I will use for my own project.

#### Using hand and power tools

I will learn how to stay safe in the workshop – how to safely use basic hand and power tools while making a prototype of my own design.

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