

# PIOPIO COLLEGE

## Course Information

### Year 11



This booklet has been put together to help you choose which subjects to take in Y11.  
It contains an outline of each subject we plan to teach in 2010.

You will gain most from your Year 11 courses by being positive and enthusiastic  
about each subject; aiming for the highest standards.

## Subject List Y9 - Y13

Core subjects ●

Optional subjects ○

	Code	Subject	Y9	Y10	Y11	Y12	Y13
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Languages	ENG	English	●	●	●	●	○
	ENA	English (Alternative)			●	●	
	FRE	French	○	○	○	○	○
	MAO	Te Reo Māori	○	○	○	○	○

Mathematics	MAA	Mathematics (Alternative)			●	○	
	MAC	Mathematics with Calculus					○
	MAS	Statistics and Modelling					○
	MAT	Mathematics	●	●	●	○	

Science	AGF	Agriculture and Forestry				○	○
	AGR	Agriculture			○		
	AGH	Agriculture and Horticulture		○			○
	AGS	Agricultural Science				○	
	BIO	Biology				○	○
	CHE	Chemistry				○	○
	PHY	Physics				○	○
	SCI	Science	●	●	●		

Social Science	GEO	Geography			○	○	○
	HIS	History			○	○	○
	SST	Social Studies	●	●			
	TIK	Tikanga-ā-iwi	●				

	Code	Subject	Y9	Y10	Y11	Y12	Y13
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Technology	CAR	Carpentry				○	
	FFT	Food & Fabric Technology	●	○			
	FPR	Food Preparation				○	○
	GRA	Graphics	●	○	○		
	HEC	Home Economics			○		
	THM	Technology - Hard materials	●	○	○	○	
	TSM	Technology - Soft Materials			○	○	

Arts	ART	Art	●	○			
	ART	Visual Arts (Level 1)			○		
	MUS	Music	●	○			
	PAI	Painting (Visual Arts Level 2 and 3)				○	○
	PHO	Photography				○	○
	PRI	Print Making (Visual Arts Level 3)					○
	SCU	Sculpture (Visual Arts Level 3)					○

Business and Computing	ACC	Accounting			○	○	○
	BAC	Business Administration & Computing				○	○
	CNC	Computing (National Certificate)				○	○
	ECO	Economics			○	○	○
	INM	Information Management		○	○		

PE and Health	HEA	Health	●	●	●	●	
	PED	Physical Education (advanced)			○	○	○
	PED	Physical Education	●	●	●		
	REC	Recreation				●	

## SOME BASIC INFORMATION TO GET YOU STARTED

NCEA Level 1 is the main qualification for Y11 students.

Students in Y12 are usually working towards NCEA Level 2.  
Students in Y13 are usually working towards NCEA Level 3.

National standards have been set in each area of learning.  
There are two types of standard; Achievement Standards and Unit Standards.  
When students achieve these standards they earn credits toward their NCEA qualification.

**Achievement Standards** may be awarded at one of three levels;  
Achieved, Achieved with Merit or Achieved with Excellence.

In each area of learning, different aspects of skills, knowledge and understanding are assessed separately.  
Each aspect can earn a different number of credits. The assessments are designed to suit the skill or knowledge being assessed.

Some Achievement Standards are internally assessed by the College.  
Some Achievement Standards are assessed by end of year examinations set by the NZQA.

Credits gained from Achievement Standards count towards NCEA Level 1.

**Unit Standards** are awarded only as Achieved.

Each Unit Standard states

- The **outcomes** that must be achieved by a student in order to gain credit on the NQF.
- The **standard** of performance required to meet the outcome.

Unit Standards are internally assessed by the College.

Credits gained from Unit Standards count towards NCEA Level 1.

### **The National Certificate of Educational Achievement (NCEA)**

is awarded to all students who gain at least 80 credits at Level 1 or higher.

The 80 credits must include

- 8 Literacy (reading and writing) credits at Level 1
- 8 Numeracy (maths) credits at Level 1

### **Entry Fees**

Entry fees in 2009 were \$75.00

The College collects the fees on behalf of NZQA.  
They must be paid in full by the end of Term 2.

Financial assistance may be available for families, if they are in one of these situations

- receive a Social Welfare benefit
- income entitles them to a Community Services Card
- have 2 or more students entering for secondary school qualifications in the same year

## **NCEA LEVEL 1 COURSE**

Each student takes six subjects.

English (NCEA) *or* English (Unit Standards)

**and**

Maths (NCEA) *or* Practical Maths (mainly Unit Standards)

**and**

Science (NCEA) *or* Agriculture (probably Correspondence course)

**and**

**3 subjects** from the following list

Geography

Graphics

Physical Education (advanced) *or* Physical Education and Health

Te Reo Māori

Technology Hard Materials

Technology Soft Materials

Visual Art

The option structure for Y11 will be developed once we know students' subject preferences.

## YEAR 11 COURSE DETAILS (arranged in alphabetical order)

### **AGRICULTURE (AGR)**

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Topics studied include soils, pasture, crops, plant propagation, reproduction, animal diseases, primary industry production, environmental impacts and management practices. There are practical components associated with most topics.

#### **Assessment**

There are seven Achievement Standards, two of which are internally assessed and five are externally assessed. The five Unit Standards are all internally assessed.  
In total there are 44 credits available.

#### **Students to supply:**

One refill and folder  
Appropriate clothing for practical assessments (could include steel toe capped boots).

#### **Next Step**

Rural Studies course  
Agriculture and Forestry STAR course  
National Certificate in Agriculture

## ENGLISH (ENG)

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### NCEA LEVEL 1 ENGLISH

Credits	21
Internal	9
External	12

This course allows students to study towards the NCEA Level 1 in English and gain the full range of credits. Students will deliver a speech in class, read a range of texts and complete a media presentation. Students wishing to do fewer credits should opt for the other class.

Students are required to meet deadlines throughout the year and are expected to be present for all assessments. The course meets the literacy requirements at Level 1

#### Prerequisites

Year 9 and 10 English with a satisfactory end of year exam result.

#### Assessment Methods

Internal and External Achievement Standards.

### NCEA LEVEL 1 ALTERNATIVE ENGLISH

Credits	13
Internal	13
External	-

This course allows students to study towards the literacy requirements of the NCEA. Most of the Unit Standards have a work skills focus, and give students the grounding required to move into employment.

#### Prerequisite

Year 9 and 10 English.

#### Assessment Methods

Internally assessed Unit Standards and Achievement Standards.

## **GEOGRAPHY (GEO)**

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Geography is the study of the environment as the home of people. It looks at how humans modify and influence the environment and how nature affects humans. As this is an introductory course, there are no pre-requisites. If you enjoyed Social Studies or Science then you should find Geography interesting.

Topics that are studied during the year include

Volcanoes      Tropical Cyclones      New Zealand Population      Monsoon Asia Population  
Dairy Farming      Mining / Quarrying

### **Year 11 Geography Assessment Programme**

In geography this year you will be working towards gaining Level One credits for the National Certificate of Educational Achievement. The work you do throughout the year will be assessed in two different ways:

Internal assessment - assignments and activities carried out throughout the year

External assessment - an exam sat at the end of the year.

The year 11 geography programme is assessed against seven achievement standards. Each has a credit weighting. When you gain credit for an achievement standard the credits contribute to your NCEA. You can also gain different grades for each achievement standard: **Achieved the standard, Achieved the standard with Merit, Achieved the standard with Excellence**. The grade you achieve is determined by the quality of your work as measured against national standards.

Outlined below are the Level One geography achievement standards, the credit weighting of each and how they are assessed.

Number	Title	Credits	Assessment
1.1	Examine extreme natural events	3	External
1.2	Examine population patterns, processes and issues	3	External
1.3	Examine resource use in a farming and mining context	3	External
1.4	Apply skills and ideas direction in a geographic context	4	External
1.5	Carry out directed geographic research - field trip	5	Internal
1.6	Examine a contemporary geographic issue	3	Internal
1.7	Examine a global study	3	Internal

You will be advised well in advance when each assessment will be carried out and what the assessment policies of the school and this department are.

Students to supply:      Ringbinder, A4 refill, WA4 exercise book, Skills book (purchased from the College)  
Coloured pencils,  
Metric ruler

## **GRAPHICS (GRA)**

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The course aims to develop an ability to communicate graphically, solve problems and present solutions in a useful, interesting and efficient way using a variety of techniques in common use today. The course is aimed at students with an interest in instrumental, computer generated and freehand drawing and those who enjoy designing and problem solving in this medium.

The course is assessed using standards based assessment.

The full years programme offers students the opportunity to gain up to 24 credits towards NCEA Level 1

Four Achievement Standards, each with a value of 3 credits are internally assessed.

A further four Achievement Standards, each with a value of 3 credits are externally assessed.

### **Students to supply**

Drawing instruments i.e. clutch pencil 0.5mm and leads  
45 and 60 set squares (Taurus 260), eraser,  
A3 drawing pad and envelope, ruler, compass set,  
metric circle guide, protractor  
coloured pencils, black fibre tipped pen  
broad felt tip pens, sellotape and scissors

### **Next step**

NCEA L2 Technology

Contact Mr Hallam or Mr Burnell for career opportunities following from this course.

## **MATHEMATICS (MAT)**

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The course includes number, measurement, algebra, geometry and statistics in a course that extends the topics covered in Year 9 and 10 Mathematics.

Modules include

<b>AS</b>	<b>Topic</b>	<b>Credits</b>	<b>Assessment</b>
1.1	Algebra	4	External
1.2	Graphs	3	External
1.3	Measurement	3	Internal
1.5	Statistics	3	Internal
1.6	Probability	2	External
1.7	Number	2	External
1.8	Trigonometry	3	External
1.9	Geometric reasoning	2	External

### **Assessment**

L1 Achievement Standards (6 external and 2 internal)

Backup Unit Standards if required

### **Students to supply**

pen, pencil, ruler, SMB 5mm Quad exercise book

Scientific calculator (may be purchased from the Bursar; cost \$20 - \$25)

Course workbook. This is a write on book that contains 400 pages of notes, worked examples and practice questions. (approx \$20 from your Maths teacher at the start of the year).

### **Previous study**

Year 10 Mathematics (to a level to be able to cope with NCEA)

### **Next step**

NCEA L2 Maths. (Good L1 passes including a Merit in Graphs and Algebra are needed to be able to cope at NCEA L2)

## **MATHEMATICS - ALTERNATIVE (MAA)**

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A course for students wanting to do Mathematics that is less difficult than NCEA Achievement Standard Mathematics. Modules include: Whole Numbers, Decimals and Metrics, Consumer Tables, Geometry, Measurement, Business Maths and Graphs, Oral Maths and Practical Activities.

### **Assessment**

Tests at the end of each module. There is no final examination.

L1 Unit Standards

### **Students to supply**

pen, pencil, ruler, protractor and compass, SMB 5mm Quad exercise book, manila folder and file clip calculator (may be ordered through the College)

### **Course Fee**

\$17.00 payable in February

### **Previous Study**

Mathematics Year 9 or 10

### **Next Step**

Year 12 Mathematics with Applications

NCEA L1 Mathematics

## **PHYSICAL EDUCATION (PED)**

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Two programmes are available for 11PE.

**Core PE** with its 2 periods per week is a predominately practical course although within the athletics module, each student, through preparing for and competing in an athletics Pentathlon, will have the opportunity to demonstrate quality movement (and gain 3 credits).

**Advanced PE NCEA level 1** is a full Y11 option of 4 periods per week. The internal assessments are based around participation in physical activity and its relationship to a variety of factors including the body structure (anatomy) and function, the effect on wellbeing and finding how the physically active body is portrayed in the media. The effect on wellbeing will relate to aquatics, athletics, volleyball, unihoc, fitness training and recreational games. Like the core PE programme students would also need to demonstrate quality movement in an Athletics decathlon as well as examining their quality of movement.

Students undertaking this course are expected to have a commitment to both the practical and theoretical component of this course.

### **Assessment Methods:**

All tasks are internally assessed and students would have the opportunity to achieve a minimum of 20 credits. The assessments take the form of 2 full and several short duration tests, poster construction and written tasks associated with what is portrayed, completion of logs and worksheets as well as an assessment (1X) of physical ability.

### **Requirements:**

Stationery which includes refill, foolscap file box and 2x 20 page clearfiles.  
Change of clothing for practical sessions (about 66% of time).

### **Next step:**

Level 2 NCEA PE

## SCIENCE (SCI)

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The following standards may be offered to Y11 Science students in 2010.

### Internal

Code	Title	Credits
AS90186	Carry out a practical science investigation with direction	4
AS90187	Research, with direction, how science and technology are related.	2
US6358	Describe the formation of major rock types; describe the rock cycle	3
US20622	Demonstrate knowledge of our solar system	4
US20621	Demonstrate knowledge of space exploration	4
US8923	Describe mechanisms for the transfer of genetic information	3
US8936	Investigate the characteristic behaviour of acids and bases	3
US6370	Describe and construct simple electrical systems	3

### External

Standards can be selected from the following list, to be examined at the end of Term 4 by NZQA

Code	Title	Credits
90188	Describe aspects of biology	5
90189	Describe aspects of chemistry	5
90190	Describe aspects of geology	3
90191	Describe aspects of physics	5

There may be opportunity for students to select standards not shown here. Students will be consulted in an effort to enable them to partially individualise their personal learning programmes. The decision to allow other options will be made on the basis of practicalities of delivery, by the HOD Science.

Students are required to follow a course of at least 24 credits, and will have opportunity for more, should they so desire. Students are expected to gain at least 12 credits by the end of this course for entry into L2 Science courses.

### Equipment needed

Refer to the Y11 - Y13 Science students' handbook

### Next Step

NCEA L2 Biology and/or Chemistry and/or Physics

## TE REO MĀORI (MAO)

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The course in Te Reo Māori covers four aspects

Whakarongo (Listening)

Kōrero (Speaking)

Pānui (Reading)

Tuhituhi (Writing)

You will practise listening, speaking, reading and writing in preparation for NCEA assessment.

The work is centred around the following themes:

- pakiwaitara - stories
- hākinakina - sport
- runaruna - hobbies
- kai - food
- whakangahau - entertainment
- umanga - occupation
- tūrangawaewae - place of origin
- tikanga - protocols
- hauora - health
- tāngata rongonui - famous people
- waka - transport
- hangarau - technology

Standard	Title	Credits	Assessment
AS90131 Te Reo Māori 1.1	Whakarongo i te reo o tona ao	6	Internal
AS90132 Te Reo Māori 1.2	Korero i te reo o tona ao	6	Internal
AS90133 Te Reo Māori 1.3	Panui i te reo o tona ao	6	External
AS90134 Te Reo Māori 1.4	Tuhituhi i te reo o tona ao	6	External

## TECHNOLOGY

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### ***TECHNOLOGY HARD MATERIALS (THM)***

This course aims to develop a student's ability to use sound construction principles and good design appreciation to create solutions to their own and others design briefs in a way that challenges their practical ability and potential.

The course is aimed at students with an interest and ability in practical craftsmanship and design.

The programme offers students the opportunity to gain up to 24 credits towards NCEA Level 1.

This may be achieved through

- Technology Achievement Standards, both internally and externally assessed and / or
- Furniture / Building Industry Unit Standards which are internally assessed.

#### **Students to supply**

pens and pencils,

A3 drawing pad and envelope

lined A4 refill.

A charge is made for materials used during the course.

#### **Next step**

NCEA L2 Technology

Carpentry course. Building and Construction Industry Unit Standards L2

Contact Mr Hallam or Mr Burnell for career opportunities following from this course.

## TECHNOLOGY

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### ***TECHNOLOGY SOFT MATERIALS (TSM)***

This course aims to develop a student's ability to use sound textile construction principles and good design appreciation to create solutions to their own and others design briefs in a way that challenges their practical ability and potential.

The course is aimed at students that are enthusiastic and enjoy designing and sewing.

The course is assessed using standards based assessment.

The programme offers students the opportunity to gain 18 credits towards NCEA Level 1. Four Unit Standards, with a value of 18 credits are internally assessed.

#### **Students need to supply**

pens and pencils  
A4 drawing pad and envelope  
Coloured pencils  
Fabric to make the items that the student has designed.

#### **Next Step**

NCEA L2 Technology Soft Materials

## **VISUAL ART (ART)**

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This course includes written work, research, developing ideas and understanding artistic concepts. This course has a strong emphasis on drawing and painting skills, but also includes a printmaking unit. A great deal of enthusiasm and effort are required, backed by plenty of work in the students' own time.

The course offers four Achievement Standards; a total of 24 level 1 credits,  
There will be four units of work.

Unit	Title	Credits	Assessment
1.1	Research art and artworks from Māori and European traditions and their concepts.	3	Internal
1.2	Use drawing processes and procedures.	5	Internal
1.3	Generate and develop ideas in making artworks.	12	External
1.4	Extend ideas in other media and techniques.	4	Internal

### **Students must provide**

A3 filemaster  
A3 drawing pad  
Paint palette with lid

### **Course Costs**

There is a course materials cost of \$75.00 that will cover all the materials needed for the year including a senior art drawing kit which gives students the basic drawing materials needed.

### **Previous Study/Entry Requirements**

Y10 Art.

Students who handed in all the Y10 work will understand the level of commitment that is needed for Y11 Art. Other interested students may be considered for the course after consulting Miss Heath.

### **Next Step**

NCEA L2 Visual Arts (Painting and Design)  
NCEA L2 Visual Arts (Photography)