



Year 10 Subject Guide 2025

### Contents:

Introduction	3
Overview of Year 11 and 12 options	4
Overview of Subjects Offered	5
Arts Subjects	6
English Subjects	12
Health / PE Subjects	15
Humanities Subjects	19
Maths Subjects	24
Science Subjects	28
Technology Subjects	36
Intervention Support Subjects	41

#### Introduction

This handbook is a resource for students, parents and guardians to better understand the different pathways and subjects available to study in Year 10, and where they may lead.

#### **Guidelines**

- Students will study 6 subjects per semester
- All subjects are one semester long, except English and Maths
- Students cannot select the same subject twice

Along with the core subject of General Science, students must also select at least one other Science subject (Biology, Chemistry, Environmental Science, Forensic Science, Physics, or Psychology)
All students must also select at least one Humanities subject (Business Management, History, or Legal Studies)

#### **Core Subjects and Elective Subjects**

A core subject is one that every student in Year 10 will complete:

- English
- Maths (Extension, General or Foundation)
- General Science (Semester One only)

An **elective subject** is one that is chosen by the student. Elective subjects in Year 10 provide students with the chance to gain further specialist knowledge and skills, by going in depth into a specific learning area. This allows students to explore different fields they are interested in before making decisions about Year 11 and 12.

#### **Extension Options**

Students in Year 10 are offered the chance to apply to study a Year 11 VCE or VET subject as part of their Year 10 program. Students must complete an application form, and have their request approved by their Year Level Leader and a member of the Principal Team.

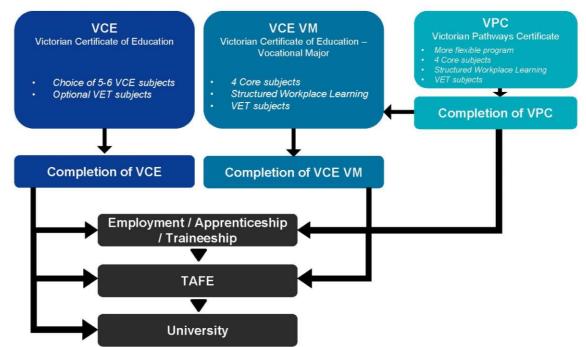
#### What Will Happen in Year 11 and 12?

The three main options in Year 11 and 12 are VCE, or VCE VM or VPC. The wide range of subjects offered in Year 10 allow students to make an informed choice about which pathway to take in Year 11 and 12.

The Victorian Certificate Of Education (VCE) provides a wide range of pathways to further study, training or employment. It is the only senior certificate that provides you with an ATAR score, which is required for many university courses. VCE is the most academically rigorous option, and requires students to complete exams at the end of Year 12.

The VCE Vocational Major (VM) has replaced VCAL, and provides a more hands-on and vocational learning context focused on work skills and experiences. It enables students to transition into apprenticeships, traineeships, further education and training. VM Students do not have to sit exams (except for the GAT) and therefore will not get an ATAR.

The Victorian Pathways Certificate (VPC) is a more inclusive, flexible option to complete your senior secondary studies. The VPC is normally completed in Year 11 and 12, but it can be started in Year 10 and/or can be finished over three years. Some students will use it as a pathway to the VCE, VCE VM, or VET certificates.



### Year 10 Subjects Offered

Learning Area	Subject	Page
Arts	Art	7
	Drama	8
	Media	9
	Music	10
	Photography	11
English	English / EAL	13
	Literature	14
	Health and Human Development	16
Health / PE	Physical Education	17
	Team Sports	18
	Business Management	20
	History	21
Humanities	Legal Studies	22
	Sociology	23
Maths	Foundation	25
	General	26
	Extension	27
Science	Biology	28
	Chemistry	30
	Environmental Science	31
	Forensic Science	32
	General Science	33
	Physics	34
	Psychology	35
	Apps and Design	37
	Foods of the World	38
Technology	Materials Technology	39
	Robotics	40
Intervention	MYLNS	42

### 2025 Arts Subjects

#### Art

#### Description

"Art is not what you see, but what you can help others see." Degas.

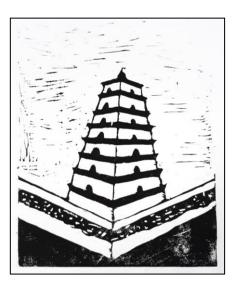
Students will develop their creative skills and talents in perspective drawing, printmaking, drawing, painting and selected art forms. Students will explore the artworks and creative art practices of artists to inspire and inform their own artmaking and to develop a deeper knowledge of how visual language can be used to persuade, influence and inform.

### Which Year 11 Subject(s) could this lead to?

- VCE Art
- VCE Media Studies

### What future careers could this lead to?

Graphic Designer	Web Designer
Artist	Illustrator
Interior Designer	Animator
Art Curator	Art Teacher
Art therapist	Architect
Video Game Designer	Video Editor



# What knowledge and skills will I build?

- Critical and Creative problem solving.
- The ability to plan, develop, evaluate, revise and refine ideas.
- Develop and enhance fine motor skills.
- Develop visual aesthetics.
- Increased analytical skills of images and the use of visual language to understand and comprehend visual persuasion.
- Project management skills and working to specified timeframes.
- To have the courage to make mistakes and learn from them.

#### WHAT ELSE DO I NEED TO KNOW?

Students may attend external visual displays as part of developing their capacity to read and analyse artworks, e.g. art galleries, special art displays, Top Arts.

#### Drama

#### Description

This class will turn the words on the page into the performance stage. Students the will on explore the development and creation of character from given and/or stimuli. text Through experiments different with character creation ideologies, students will first create a solo then performance, work collaboratively to create an ensemble performance for an external audience.

## Which Year 11 Subject(s) could this lead to?

- VCE Drama
- VCE Theatre Studies

## What future careers could this lead to?

- Media production areas: Radio, Television, Podcast, Streaming
- Professional Stage: Front of house, backstage, chorus, etc.
- Business Promotional work



# What knowledge and skills will I build?

- Increased analytical skills of language for communication
- Project management and organisation skills
- Collaboration and team work skills
- Creative problem solving and trialling and error experimenting
- Further development of a visual aesthetic

#### WHAT ELSE DO I NEED TO KNOW?

If possible, students may be asked to attend an external professional stage performance to enhance and develop their understanding of live performance.

#### Media Studies

#### Description

"Who ever controls the media controls the mind" – Jim Morrison, 1969.

Students will spend 60% of their time developing skills and techniques using cameras and movie. They will plan, develop and create a Media Production Design before filming and editing the finished product.

Students will look at media influence, digital technologies and the media industry as part of their 40% theory work.

Which Year 11 Subject(s) could this lead to?

- VCE Media Studies
- VCE English
- VCE Literature

### What future careers could this lead to?

- Journalism, writing, editing
- Advertising
- Creative industries: Film, Television, Radio, Podcast, Streaming



# What knowledge and skills will I build?

- Increased analytical skills with image and language
- Project management
- Collaboration and team work skills
- Creative problem solving through trialling ad experimenting
- Further developing a visual aesthetic

#### WHAT ELSE DO I NEED TO KNOW?

Materials required:

- \$10 to cover cost of printing
- USB to burn copy of final film

#### Music

#### Description

"Where words fail, music speaks" – Hans Christian Andersen, 1850.

Students explore a wide range of styles through the practice of performing, creating and studying music, both as a solo and in a group.

The key focus of this class is building musicianship and performance skills.

## Which Year 11 Subject(s) could this lead to?

• VCE Music Performance

## What future careers could this lead to?

- Musical Session performer
- Music teacher
- Band member



# What knowledge and skills will I build?

- Increased analytical skills
- Project management
- Collaboration and team work skills
- Creative problem solving through trialling and experimenting
- Further developing a audio aesthetic

#### WHAT ELSE DO I NEED TO KNOW?

Students who are considering studying music should also engage in the Glenroy College Instrumental Program (at no extra cost).

### Photography

#### Description

In this subject students will learn how to use a wide range of photographic tools and techniques. Students will have the opportunity to use digital and film cameras.

Students will create a portfolio that showcases the range of skills and techniques they have learnt.

# Which Year 11 Subject(s) could this lead to?

- VCE Art
- VCE Media Studies

# What future careers could this lead to?

- Photographer
- Photo-journalist
- Artist
- Advertising / Marketing
- Film or Television



# What knowledge and skills will I build?

- Camera types and purposes
- Lens types and purposes
- Photo composition elements
- Film developing
- Film and photograph editing

#### WHAT ELSE DO I NEED TO KNOW?

Glenroy College will provide the equipment required for this subject

### 2025 English Subjects

### English/EAL

#### Description

Year 10 English and English as an Additional Language (EAL) involves reading, interpreting, creating, and evaluating diverse literary and media texts.

Students develop critical understanding of contemporary media and explore national and global issues.

They create a variety of texts which can include creative writing, analytical responses and oral presentations.

Which Year 11 Subject(s) could this lead to?

- VCE English / EAL
- VCE Literature
- VCE VM Literacy

## What future careers could this lead to?

- Writer / Journalist
- Teacher
- Librarian
- Lawyer
- Artist



# What knowledge and skills will I build?

- Reading and Viewing: Read and analyse a range of texts.
- Writing: Create a range of texts to develop your own ideas.
- Speaking and Listening: Explain different perspectives and attitudes and present ideas through oral presentations.

#### WHAT ELSE DO I NEED TO KNOW?

You must study an English subject in both Years 11 and 12.

This can be English, English as an Additional Language, or Literature or a combination

#### Literature

#### Description

Literature is the study of written texts including poetry, drama and narrative texts.

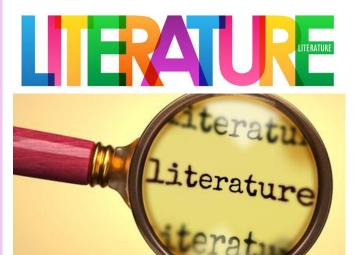
Students undertaking the Year 10 Literature elective will study a range of texts. These may include Shakespeare's sonnets, the poetic works of Edgar Allan Poe, and collections of short stories including the works of Maxine Beneba Clarke and others.

# Which Year 11 Subject(s) could this lead to?

- VCE English / EAL
- VCE Literature

# What future careers could this lead to?

- Writer / Journalist
- Teacher
- Librarian
- Lawyer
- Artist



# What knowledge and skills will I build?

- Read and analyse a range of literary texts
- Improve your analytical writing skills
- Create literary texts of your own

#### WHAT ELSE DO I NEED TO KNOW?

You must study an English subject in both Years 11 and 12.

This can be English, English as an Additional Language, or Literature or a combination

### 2025 Health and Physical Education Subjects

#### Health and Human Development

#### Description

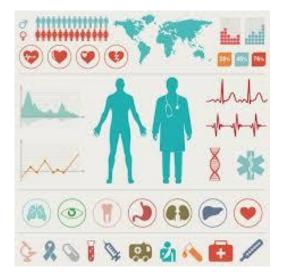
Students will explore the dimensions of health and the interrelationship between the dimensions of health. They will use simple health data to identify the major causes of illness, injury and death in Australia. Students investigate personal behaviours and community actions that may contribute to the health of specific groups. Students investigate of the work government departments and non-government bodies in promoting and protecting the health of people.

# Which Year 11 Subject(s) could this lead to?

 VCE Health and Human Development

# What future careers could this lead to?

- Nursing
- Health Science
- Environmental Science
- Physiotherapy
- Youth Work



# What knowledge and skills will I build?

- Nutrition
- Dimensions of Health
- Government and Non Government Agencies
- Health challenges that affect young people

#### WHAT ELSE DO I NEED TO KNOW?

Unlike Year 9 Health and PE, this subject does <u>not</u> involve practical Physical Education classes.

### Physical Education

#### Description

Students will complete both practical and theoretical classes. topics covered include The studying the cardiovascular, respiratory, muscular and skeletal systems as well as looking at the acute responses of body when the exercising. investigate Students will as different training methods and principles to give them the core knowledge to develop their own fitness program. Students will be expected to participate fully in all class activities.

# Which Year 11 Subject(s) could this lead to?

- VCE Physical Education
- VET Sport and Recreation

# What future careers could this lead to?

- Career in sport management
- Sport Coaching
- Physical Education Teaching
- Personal Training



# What knowledge and skills will I build?

- Coaching skills
- Knowledge of Cardiovascular, Respiratory and Muscular Skeletal systems
- Training Methods

#### WHAT ELSE DO I NEED TO KNOW?

This subject involves both practical classes and theory classes. Students are expected to actively participate in all practical classes.

#### Team Sports

#### Description

This new subject will focus on learning the rules and specific skills required for a range of team sports, and on building teamwork skills.

Students will participate in theory classes designed to explore and analyse strategies and skills required for teams to be successful, and practical classes where they will have the opportunity to put their learning into action.

Which Year 11 Subject(s) could this lead to?

- VCE Physical Education
- VET Sport and Recreation

## What future careers could this lead to?

- Professional athlete
- Sport Coaching
- Physical Education Teaching



# What knowledge and skills will I build?

- Teamwork skills
- Strategy and tactical skills
- Develop motor skills

#### WHAT ELSE DO I NEED TO KNOW?

This subject involves both practical classes and theory classes. Students are expected to actively participate in all practical classes.

### 2025 Humanities Subjects

#### Business Management

#### Description

This subject is about managing money and making smart financial decisions. You will learn how to make independent financial decisions.

You'll investigate how to earn an income through multiple avenues, and learn strategies that can lead to financial success. This subject moves from personal finances, such as budgeting and taxes, to understanding a range of businesses and economic systems.

This subject prepares you for VCE Business Management as you will explore how small businesses owners navigate their way through the highs and lows of starting, managing and promoting their business.

# Which Year 11 Subject(s) could this lead to?

- VCE Accounting
- VCE Business Management
- VCE Economics

## What future careers could this lead to?

- Project Management
- Human Resources
- Advertising / Marketing
- Management Consultant
- Supply Chain Logistics
- Business owner



# What knowledge and skills will I build?

- Investigating the reasons for the management of your personal finances including, budgeting, taxation, preparing receipts for tax return and avoiding scams
- Exploring marketing and promotion of a business
- Analysing planning for the highs and lows of the market from the perspective of a small business owner

#### WHAT ELSE DO I NEED TO KNOW?

Students can apply their learning from the \$20 boss program in Year 9 to this course.

#### History

#### Description

How and why do wars happen? How do we explain atrocities? With the assassination of an archduke in 1914, the western world was in chaos. Immediately, countries took sides and negotiated alliances... but humanity was in conflict long before the World Wars of the twentieth century, and global conflict continues to this day.

This subject examines the varying causes and experiences of war and conflict, delving into politics and philosophy as well as history. This subject will inquire into global movements including the causes and consequences of their influence in Australia and beyond. You will also develop your own area of inquiry following your own interest around global movements.

# Which Year 11 Subject(s) could this lead to?

- VCE History
- VCE Legal Studies

# What future careers could this lead to?

- Lawyer
- Historian / Archivist
- Journalist / Writer
- Criminologist
- Researcher
- Teacher
- Politician / Strategist



# What knowledge and skills will I build?

- Interpreting sources of information and determining the usefulness and reliability of them.
- Learn about politics and philosophy behind pre and post war ideologies and movements
- Evaluate the impact of current and historical events
- Analyse and evaluate different perspectives of people in the past

#### WHAT ELSE DO I NEED TO KNOW?

Students who continue to study History in VCE will have the opportunity to select which Year 12 course they would prefer to study – Revolutions or Australian History.

### Legal Studies

#### Description

In this subject, students will investigate how the law affects young people in their everyday lives.

Students will gain an understanding of their rights as well as their obligations with respect to the law. They will learn about the process of decision making in Australian society and how they as individuals can contribute by being active citizens.

This subject will provide students with the key skills and knowledge for entry into VCE Legal Studies cover topics including

- Laws and Citizens
- Government and Democracy
- Human rights
- Global citizenship and identity

### Which Year 11 Subject(s) could this lead to?

VCE Legal Studies

## What future careers could this lead to?

- Lawyer / Paralegal
- Policy Maker / Law Maker
- Teacher
- Law enforcement
- Social Justice
- Consultant



## What knowledge and skills will I build?

- Investigate key features of Australia's political and voting systems.
- Analyse and explain Australia's role and responsibility as a global citizen.
- Describe key features of Australia's court system including the jurisdiction of the courts and their role in interpreting and applying the law.
- Researching historical and contemporary case studies

#### WHAT ELSE DO I NEED TO KNOW?

This subject will involve an excursion to the Magistrate's Court and / or Parliament. All students will be expected to attend as part of the coursework for this subject.

#### Sociology

#### Description

Sociology is the study of social life, social change, and the social and consequences causes of behaviour. Sociologists human structure investigate the of organizations, and groups, societies. and how people interact within these contexts.

You will investigate how societies are organised, develop and change.

The skills and knowledge learnt in Sociology complement those learnt in Psychology.

Which Year 11 Subject(s) could this lead to?

- VCE Sociology
- VCE Psychology

# What future careers could this lead to?

- Sociology
- Psychology
- Counselling
- Education



# What knowledge and skills will I build?

- Understanding human behaviour and its impact on society
- Problem solving skills
- Inquiry skills
- Report writing
- Research tasks

#### WHAT ELSE DO I NEED TO KNOW?

VCE Sociology is offered through partnership with Pascoe Vale Girls College, in a hybrid form (part in person, part online)

### 2025 Maths Subjects

### Foundation Maths

#### Description

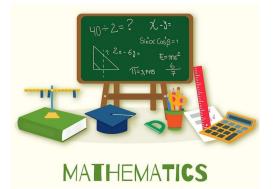
Foundation maths provides students with the mathematical knowledge and skills to solve problems in real contexts for a range of workplaces, personal contexts, further learning, and community settings. Students will focus on core skills at a slower pace and with more classroom support than the General Maths course.

# Which Year 11 Subject(s) could this lead to?

- VCE Foundation Maths
- VM Numeracy

# What future careers could this lead to?

- Tradesperson
- Sales assistant
- Freight Clerk
- Cashier/Bank worker
- Salon assistant



# What knowledge and skills will I build?

- Students will learn how to apply techniques, routines and processes to develop their problem solving and reasoning skills.
- Students will consider the real-world application of mathematical concepts.
- These skills will support the maths required for the work place.

#### WHAT ELSE DO I NEED TO KNOW?

Foundation maths follows the Year 10 curriculum, but has a focus on real world context and building numeracy skills.

#### General Maths

#### Description

General maths will provide a solid base for a sound background in number, algebra, function, geometry and statistics.

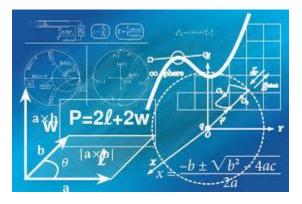
A range of approaches will be used to develop concepts, procedures and processes by making connections, reasoning, problem solving and practice.

# Which Year 11 Subject(s) could this lead to?

- VCE General Maths
- VCE Foundation Maths
- VCE Accounting
- VCE Business Studies

# What future careers could this lead to?

- Tradesperson
- Sales assistant
- Freight Clerk
- Cashier/ Bank worker
- Salon assistant



# What knowledge and skills will I build?

- Extend your use of mathematical models to a wide range of familiar and unfamiliar contexts
- The use of all types of real numbers
- Recognise the role of logical argument and proof in establishing mathematical propositions
- Use estimation to validate or provide bounds for answers
- Use exponential functions to model compound interest

#### WHAT ELSE DO I NEED TO KNOW?

General maths follows the Year 10 curriculum, but has a more academic and conceptual focus than Foundation Maths.

#### **Extension Maths**

#### Description

Extension Maths at Year 10 provides additional content to the general maths curriculum.

This content will extend students in their mathematical studies of number, algebra, function, geometry, probability and statistics.

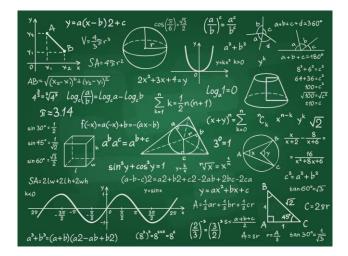
This course provides students with a strong foundation for studying VCE Maths Methods or Specialist Maths in Year 11.

## Which Year 11 Subject(s) could this lead to?

- VCE General Maths
- VCE Maths Methods
- VCE Specialist Maths
- VCE Accounting

# What future careers could this lead to?

- Engineering
- Sciences
- Technology
- Medicine
- Teaching



# What knowledge and skills will I build?

 Apply technology, routines and processes involving rational and real arithmetic, sets, lists and tables, diagrams and geometry, algebraic manipulation, equation solving and graphsketching of linear and nonlinear relationships and probability

#### WHAT ELSE DO I NEED TO KNOW?

Students will need to be recommended for this subject by their Year 9 Maths teacher.

### 2025 Science Subjects

### Biology

#### Description

Biology is the study of life and the interactions between species.

The subject will investigate cells and body systems, how plants get nutrients and responses to the environment by plants and animals.

It will investigate the study of genes and inheritance and look at the theories of evolution by natural selection.

## Which Year 11 Subject(s) could this lead to?

- VCE Biology
- VCE Chemistry
- VCE Environmental science
- VCE Psychology

## What future careers could this lead to?

- Health workers
- Zoologists
- Laboratory workers
- Research



# What knowledge and skills will I build?

- Problem solving skills
- Inquiry skills
- Report writing
- Practical tasks
- Research tasks

#### WHAT ELSE DO I NEED TO KNOW?

#### Chemistry

#### Description

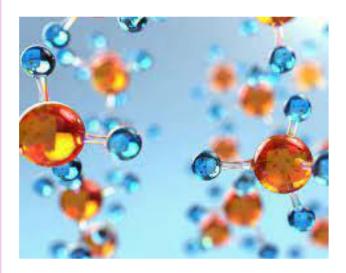
Chemistry is the study of matter and how elements interact in reactions.

In this subject you will learn about elements and compounds and how they are formed and work together.

You will investigate the reactions and consolidate knowledge of types of reactions and the rates of reaction.

# Which Year 11 Subject(s) could this lead to?

- VCE Chemistry
- VCE Environmental science



# What knowledge and skills will I build?

- Problem solving skills
- Inquiry skills
- Report writing
- Practical tasks
- Research tasks

## What future careers could this lead to?

- Health workers
- Medicine
- Food technology
- Research
- Pharmacy

#### WHAT ELSE DO I NEED TO KNOW?

#### Environmental Science

#### Description

Environmental Science enables students to explore the relationships between the Earth's four systems.

Students will explore how past and current human activities may affect the environment and how future challenges can be managed sustainably.



# Which Year 11 Subject(s) could this lead to?

• VCE Environmental science

# What knowledge and skills will I build?

- Problem solving skills
- Inquiry skills
- Report writing
- Practical tasks
- Research tasks

## What future careers could this lead to?

- Environmentalist
- Sustainability specialist
- Environment planner
- Policy analyst

#### WHAT ELSE DO I NEED TO KNOW?

#### **Forensic Science**

#### Description

This subject focuses on skills and concepts behind crime investigation.

You will gain investigative skills and review a range of science topics (particularly chemistry) through theory and practical experimentation.



# Which Year 11 Subject(s) could this lead to?

- VCE Chemistry
- VCE Environmental science

# What knowledge and skills will I build?

- Problem solving skills
- Inquiry skills
- Report writing
- Practical tasks
- Research tasks

### What future careers could this lead to?

- Forensic scientist
- Crime scene investigator
- Toxicologist

#### WHAT ELSE DO I NEED TO KNOW?

#### **General Science**

#### Description

This is a compulsory subject for all year 10 students, studied in Semester One.

subject The incorporates all strands of science to give students broad science а overview. and inform their choices for Science electives in Semester Two and into VCE.

It will investigate cells, body systems and chemical reactions which occur in the body, as well as motion and the universe.

## Which Year 11 Subject(s) could this lead to?

- VCE Biology
- VCE Chemistry
- VCE Environmental science
- VCE Physics
- VCE Psychology

## What future careers could this lead to?

- Health workers
- Engineers
- Physicists
- Chemists



# What knowledge and skills will I build?

- Problem solving skills
- Inquiry skills
- Report writing
- Practical tasks
- Research tasks

#### WHAT ELSE DO I NEED TO KNOW?

Students will study this subject in Semester One, and will be able to change their preferences for Semester Two science electives based on their learning from this subject.

### Physics

#### Description

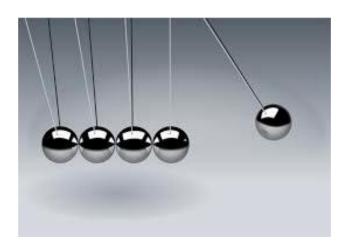
Physics is the study of energy and motion.

This subject investigates the motion of objects and how it involves the exchange of energy and can be predicted by using the laws of physics.

Students will analyse different types of energy and also investigate the origins of the universe.

## Which Year 11 Subject(s) could this lead to?

VCE Physics



# What knowledge and skills will I build?

- Problem solving skills
- Inquiry skills
- Report writing
- Practical tasks
- Research tasks

## What future careers could this lead to?

- Engineer
- Medical physicist
- Meteorologist
- Data analyst

#### WHAT ELSE DO I NEED TO KNOW?

#### Psychology

#### Description

Psychology is the study of the brain and behaviours. In this subject types of psychology, mental disorders and body image will be investigated.

# Which Year 11 Subject(s) could this lead to?

VCE Psychology



# What knowledge and skills will I build?

- Problem solving skills
- Inquiry skills
- Report writing
- Practical tasks
- Research tasks

### What future careers could this lead to?

- Psychologist
- Counsellor
- Forensic Scientist
- Teacher

#### WHAT ELSE DO I NEED TO KNOW?

### 2025 Technology Subjects

#### Apps and Design

#### Description

In Apps and Design, you will learn about current trends in technology and brainstorm an idea for an application to solve a real-world problem. You will learn how to create visual designs for an app, select the best design and plan how to make it work.

In the programming part of the course, you will turn your ideas into an actual mobile app. As you will want to build better apps in the future the final section of the course is evaluation, where you will judge your app and suggest improvements.

# Which Year 11 Subject(s) could this lead to?

VCE Applied Computing

## What future careers could this lead to?

- Game Developer
- Software Development
- IT administrator
- Cyber Security



# What knowledge and skills will I build?

- Problem Solving
- Designing Solutions
- Design Thinking Process
- Project Management
- Collaborative Learning
- Evaluation
- Programming

#### WHAT ELSE DO I NEED TO KNOW?

The subject is suited to students who want to develop thinking and design skills. The subject will give you skills that will help you in a range of VCE and VM subjects.

### Foods of the World

#### Description

This subject is an exciting opportunity to learn about how to eat well for the future and how our food choices can affect our health.

We also study indigenous food, culture and practices in Australia and take a cultural voyage around the world to look at different flavours and cuisines.

Students will able be to participate in and practical classes where they can apply their skills. The design process and the creation of products and how to analyse the sensory properties of products made is a key focus. This subject is a great lead in for students wishing to study VCE Food studies.

# Which Year 11 Subject(s) could this lead to?

- VCE Applied Computing
- VCE Product Design

## What future careers could this lead to?

- Chef
- Baker
- Catering
- Nutritionist



# What knowledge and skills will I build?

- Build practical food skills in planning, preparing and cooking ensuring food safety
- Apply principles of nutrition, food science and sensory evaluation to food planning and preparation
- Research and discuss issues relating to our food system and sustainability

#### WHAT ELSE DO I NEED TO KNOW?

Students will be required to bring a container to each practical class to carry the food that is prepared.

### Materials Technology

#### Description

Materials Technology is a course of study that focuses on the parallel areas of Design and Production and the changing nature of Production Materials.

Students learn how to research, design, build and evaluate physical products using materials such as timber, metals and plastics. They are asked to consider the ergonomics of clients, the sustainability and lifecycle of existing and emerging products to inform their design Decisions.

Focusing on developing handmade objects such as tables, chairs through to unique design solutions for storage and student/client interests. Students learn how to utilise materials, tools and techniques in line with existing and emerging industry practices.

# Which Year 11 Subject(s) could this lead to?

VCE Product Design

## What future careers could this lead to?

- Construction and Fabrication
- Industrial Design
- Transport Design
- Engineering
- Fashion Design and Textiles
- Jewellery and Metal Work



# What knowledge and skills will I build?

- Design thinking strategies
- Working in teams
- Developing and responding to criteria
- Evaluating designs
- Research methods
- Project Management

#### WHAT ELSE DO I NEED TO KNOW?

Students will be required to actively participate in both theory and practical classes for this subject.

#### Robotics

#### Description

In Robots you will learn what is required to make a collision avoiding robot and learn a little about Physics and Electronics along the way. Next you will create different designs for algorithms robots and to perform tasks. In programming and construction, you will build, program, and test your robot. As you will want to build better robots in the future the final of the section course is evaluation, where you will judge robot and suggest your improvements.

Which Year 11 Subject(s) could this lead to?

- VCE Applied Computing
- VCE Product Design

# What future careers could this lead to?

- Robotics
- Mechanical Engineering
- Computing
- Electrician
- Electronics



# What knowledge and skills will I build?

- Mechanical Skills
- Problem Solving
- Designing Solutions
- Programming
- Electronics
- Understanding Digital Systems

#### WHAT ELSE DO I NEED TO KNOW?

Robotics is a cutting-edge technology that has an exciting future. This course is suited to students who would be prepared to take risks and learn about new technologies.

### 2025 Intervention Support

#### MYLNS

#### Description

The MYLNS elective is a year long intervention program providing students with targeted teaching and support in reading comprehension.

Content and learning tasks are designed to support maximum engagement and reading growth so that students experience improved confidence in their other subjects and their VCE program.

### Which Year 11 Subject(s) could this lead to?

 MYLNS is a Year 10 Program only, but will support students to improve literacy skills for all subjects

### What future careers could this lead to?

Literacy is a necessity in all future study and employment pathways. Developing these skills and addressing reading gaps opens career options in all areas.



## What knowledge and skills will I build?

- Develop reading stamina
- Address testing anxiety
- Develop explicit reading strategies
- Measure and track growth in your reading age

#### WHAT ELSE DO I NEED TO KNOW?

Students are selected for MYLNS by the Department of Education and can graduate from the program by reading at level. Most students will remain in the elective for the full year.