



Year 10 Middle School

HANDBOOK 2025

Guide to Year 10

Middle School

You are entering the second year of the Middle School program. You need to select a course that enables you to extend on your interests and abilities, and also to prepare yourself for the Senior School next year.

An exciting element of the Year 10 Program at Lowanna include the opportunity to undertake Work Experience during the year.

The Year 10 program at Lowanna continues to offer a broad general education with some compulsory electives and areas of study, but you do have the opportunity to select units that will assist you in your future plans. You should be selecting units that challenge you, and not just look for easy options. A poor choice may limit your options in the Senior School.

You have the opportunity to include a VCE Unit 1 & 2 subject in your course in Year 10, and this should be considered carefully by some students. There are two groups of students who may consider a VCE subject in Year 10:

1. Students who are academically capable and who have an ambition to go to University after Year 12. The decision to study a VCE subject in Year 10 may assist your overall success in VCE.
2. Students who have a particular talent and skill in an area (eg) Art. You will benefit from the challenge of studying a subject at a higher level.

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Middle School Team



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The Year 10 Program

This handbook outlines the program options at Year 10 and should be read carefully. If you have any questions, please do not hesitate to contact the College on telephone: 5127 9246 (Middle School).

If you made mistakes with your selections in Year 9, then you need to avoid making the same mistakes in Year 10.

Students study units which are one semester in length. Students in the Middle School study 6 units in Semester 1, and 6 units in Semester 2. This gives a total of 12 units. The following table outlines the requirements for each student program:

Key Learning Area	Minimum Units Required
English	2
Mathematics	2
Humanities (includes Work Education)	1
Science	1
Health/Physical Education	1
Art	0
Technology	0
LOTE	0
Total Units Required	7
Remaining Units (Student Choice)	5
Total Units Studied in Year 10	12

For each Key learning Area, this means:

English

English is a compulsory subject. Students will study English in both semesters.

Mathematics

Like English, students will study Mathematics in both semesters. The Maths subjects being offered are Standard Mathematics and Advanced Mathematics.

Science

Students will study a compulsory Science unit and they can elect to do more Science electives if they wish. Students who are thinking of doing a Science subject (Biology, Physics, Chemistry, or Psychology) in their future VCE course are strongly advised to select the Science elective "Serious About Science". Student who select this will do "Core Science" in semester one, and the "Serious about Science" elective in semester 2.

Health/PE

Students will study a compulsory core unit and for 2025, there are four core units to make a choice from. It is important that students read the outline of the core units carefully, so the right choice is made in relation to their future studies in Year 11 and 12. Students can also undertake another one or two units from this area of learning as electives.

Humanities

Students will undertake one compulsory unit of Humanities. Work Experience will be undertaken during this unit. There is additional Humanities electives available to Year 10 students.

Arts & Technology

There is no minimum number of units for students to choose in Year 10 in the Art and Technology areas.

Languages/LOTE

This is not compulsory, but students can elect to continue their studies in LOTE (Italian and Indonesian) if they wish to.

Choosing Your Subjects

Please read the following pieces of advice to guide you in choosing your Year 10 Program.

The best advice when choosing a course for Year 10 is to look at a balanced program that best reflects your skills, abilities, and interest levels. It is a chance to have a go at some electives so that when you enter the Senior School, you have a better idea of where you would like to head in your future career.

1. Do not rush the process. We have timelines for you to meet, but these are important choices for you to make, so choose carefully.
2. This is your program, not your friends. Choose the best options for you. You are the one who has to study each elective at least three periods a week for a semester.
3. Do not be influenced by what students tell you about an elective. Find out for yourself. Ask your current teacher to explain an elective, or seek the teacher listed as the contact for more information.
4. Some electives involved additional costs. These are listed in the handbook. Take these into consideration when making final decisions.
5. Do not choose electives because of the name or title. Once again, find out as much as you can about each elective that interests you. Speak to the staff involved.
6. Do not choose a unit because of who you think the teacher will be. Staffing for next year has not been finalised, so we do not know at this point who will be teaching which electives.
7. In the handbook, there are pathways shown that indicate to you where studying each elective may take you in your future studies. These are guides to consider.
8. For Mathematics, your choice of level of study will determine your future options in these important areas. The pathways for these areas need to be understood.
9. If you made mistakes with your selections in Year 9, then you need to avoid making the same mistakes when selecting your Year 10 course.

The Process in Selecting a Course

1. Read this handbook so you are aware of the options and choices available.
2. Hint: as you read the handbook, place a line through those units you definitely would not consider. Keep the rest open at this stage. This will make it easier for you to refer back to the handbook when making your final selections.
3. Seek advice from your current Mathematics teacher as to what level they recommend you study in Year 10. Take this advice on board, but you can elect the level you wish to study (or may need to study for a future career). Where there is a difference of opinion, discussions between the teacher, student, and parent is strongly recommended.
4. Seek advice from the teachers listed as a contact to gain more information about electives you are interested in.
5. Speak to one of the Middle School coordinators if you are having trouble understanding the process, or if you have some questions.
6. Complete the Subject Selection Sheet listing your preferences. The sheet is designed to assist you in making the correct choices. When you reach your free choices (Numbers 9-12), list them in order of preference.
7. Please also list additional choices (Numbers 13-15) of electives that you would be prepared to include if one or more of your initial choices are unavailable. Do these in order.
8. You will be advised later if for some reason there is an issue with your course.

Please be involved. This is important. We are here to help you make the best selections. Good luck.



VCE Units at Year 10

Students in Year 10 who meet the guidelines related to academic ability, student attitude and commitment to undertake an advanced study, are encouraged to enrol in a VCE Unit at Year 10.

A selection process will be involved which requires students to demonstrate strong ability in all studies across the curriculum.

By attempting a VCE subject in Year 10, students will be better prepared to study a Year 12 subject when in Year 11. The advantages of students studying a Year 12 subject the following year when in Year 11 are:

- (a) Students complete a sixth Year 12 subject and increase their ATAR by adding an extra 10% for that study;
- (b) Students have a better understanding of the assessment and external examination process.



The following Year 11 subjects are being offered in Year 10.

- History
- Business Management
- Geography
- Legal Studies
- English
- Literature
- Health and Human Development
- Physical Education
- Outdoor & Environmental Studies
- Sport and Recreation

- Software Development
- Art Creative Practice
- Visual Communication and Design
- Product Design and Technology
 - Metal
 - Wood
- Systems Engineering
- Food and Technology
- General Mathematics
- Psychology
- Biology

Students who are interested in any of the units listed above should see the Senior School Office for more information.

English

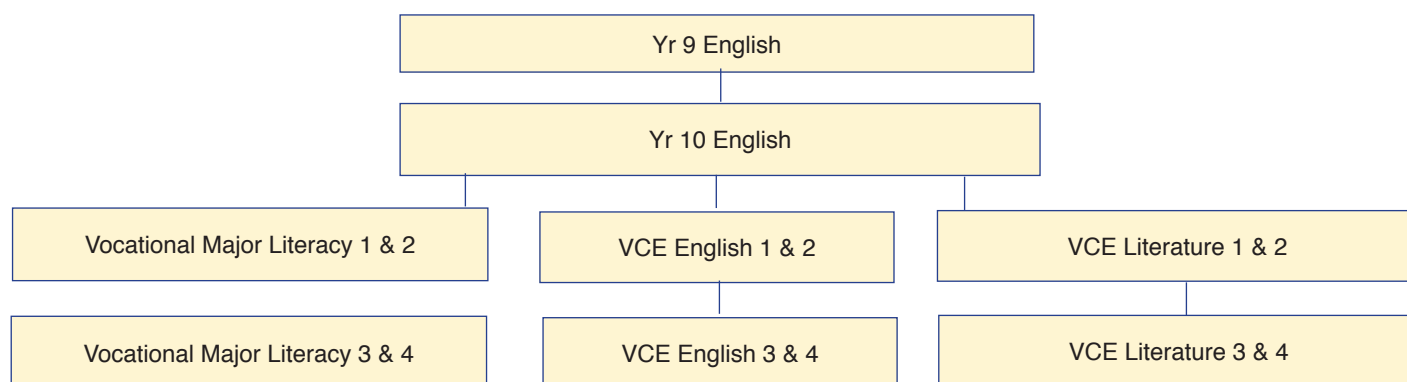
Students must complete two semester units of English in Year 10.

English

These units focus on a range of texts and involve students in extending their language and communication skills through developing their abilities in reading, writing, listening and speaking.



Pathway Options



The Mathematics Strands

The Mathematics strands are: Number & Algebra; Measurement and Geometry; and Statistics & Probability', as per the Victorian Curriculum.

General information

Students must complete two semesters of Maths in Year 10.

Year 10 Mathematics

Year 10 Mathematics curriculum is designed to support and prepare students for their senior years at high school, where students will continue to deepen their knowledge across the Victorian Curriculum strands: 'Number and Algebra', 'Measurement and Geometry', and 'Statistics and Probability'. Our classes are organised to enable teachers to readily meet the learning needs of their students and target the instruction of their lessons accordingly. This design will create options for students as they move into either academic or vocational pathways, and better prepare them with the skills they will need in their future endeavours.

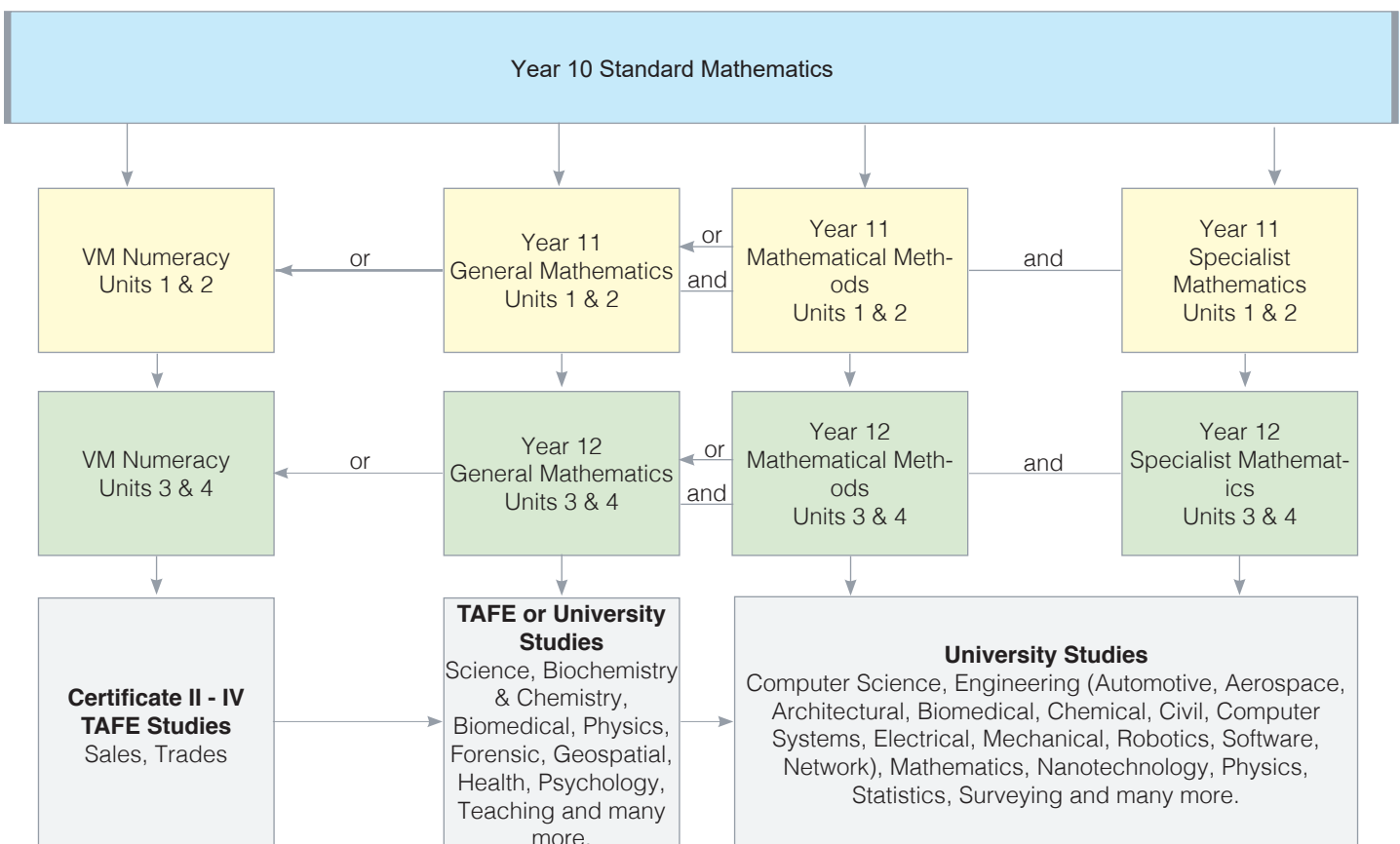


Pathways for Mathematics

Should you have any concerns about which Mathematics subject is appropriate for you, ask your current Mathematics teacher.

The flow diagram below shows the possible pathways available to students in their choice of Mathematics.

- The solid vertical arrows indicate the sequence and direction normally taken.
- The solid diagonal arrows offer a possible alternative pathway for students in Mathematics.
- The dashed arrows indicate a possible sequence which requires extra preparatory work and must be approved by the Mathematics Teaching and Learning Leader in conjunction with the current Mathematics teacher.



Students must do a minimum of one Core Science subject in any semester. Students may also select an additional elective if they wish.

Core Science

General Science

This unit covers the following topics:

- Force & Motion (Physics)
- Genetics & Evolution (Biology)
- Chemistry

Science Electives

Serious About Science (Semester 2)

Have you ever wondered:

- Why oil doesn't mix with water?
- How a battery works?
- How plants communicate with each other?
- How hormones and nerves work?

This subject will allow students to enhance their understanding of the world around by answering these questions and more. The subject builds on the scientific concepts and inquiry skills across the key scientific disciplines of Physics, Chemistry and Biology. There will be an emphasis on applying theoretical understandings to practical investigations through developing sound scientific questions and the subsequent process of experimental design and investigation. Students will develop their practical skills including observation, recording of data, data analysis and problem solving.

Students considering a VCE science subject are recommended to undertake this elective.

Agriculture Studies

Students firstly learn about the major Agriculture Industries in Australia. They include:

- Dairy
- Beef
- Sheep
- Goat
- Poultry
- Swine
- Horticulture

This section of the course has a large practical component, including: a 'Raising Healthy Chickens Program' where students name and raise chickens from 1 day old to 4 weeks; and the 'Cows Create Careers' project where students are required to feed and care for dairy calves and research the Dairy Industry. Other projects include growing vegetables.

During the semester, the course covers a range of topics, such as:

- Weather and climate
- Agricultural areas of Australia
- Soil nutrients and soil types
- Sustainable Farming in the different agricultural sectors
- Anatomy and Physiology of plants and animals
- Natural Resource Management
- Finances

This unit is designed to give a broad overview of Agriculture and Horticulture in Australia with the intention of exposing students to areas of study they may wish to pursue into VCE, for example, Units 1-4 VCE Agricultural and Horticultural Studies.

Science Pathways



Health & Physical Education

In Year 10, students are required to complete the core unit of Health and Physical Education in either semester 1 or semester 2, unless they are part of the Sports Academy. The core unit is purely a Health and Physical Education course, containing both practical and theoretical work, and is in preparation for students planning to do VCE Physical Education.

For this year, there is a choice between **three** elective units.

The first elective unit focuses mainly on Health and Human Development concepts, with some practical excursions and programs included. This course will be an excellent lead-up to VCE Health and Human Development.

The second elective unit is Outdoor and Environmental Education which is both a practical and theoretical subject. This subject is an excellent lead-up to VCE Outdoor and Environmental Studies Units 1 and 2.

The third elective unit is Introduction to VCE Physical Education. Based on VCE PE concepts, this is a great choice for students striving to study VCE PE in future years.

Core Health & Physical Education

General Physical & Health Education - Boys or Girls

Practical units to be covered will be Fitness and a variety of set sports. Health Education topics to be studied include:

Fitness, Mental Health, Mens/Womens Health and Risk Taking.

This subject has some connection with VCE Physical Education and Health and Human Development Units 1 and 2.

Health & Physical Education Electives

Outdoor and Environmental Education

This course introduces students to the basic skills, knowledge and attitudes required for safe participation in canoeing and mountain bike riding. Some VCE concepts are also introduced during this class. Students are required to positively participate in both theoretical and practical sessions.

Extended activities will involve an additional cost, totalling approximately \$250 for the semester. Practical activities are compulsory.



Introduction Into Health & Human Development

In this subject, students will identify and explore various health determinants in regard to the stages of the lifespan. Youth health and wellbeing is studied, particularly in relation to nutrition, nutrients and diet. Students will also have the opportunity to be a part of the “Real Life Baby Program”, which will incur a cost. Students discover a range of health services and technologies in Australia and the world. Topics of global health and wellbeing, health promotion and worldwide health trends are also covered. The practical units covered will include various lifestyle physical activities. This subject is an excellent introduction to VCE Health and Human Development.

Introduction Into VCE Physical Education

Introducing a new elective unit tailored for Year 10 students with an interest in Sports Science, inspired by VCE Physical Education. In this elective unit, students delve into the fundamental principles underlying human movement and energy production for physical activity, sport, and exercise. Through practical exploration and theoretical study, students gain insights into movement analysis, biomechanics, and the intricate interplay of the body's energy systems. This elective should be studied by students striving to complete VCE PE in future years.

Lowanna Sports Academy

Lowanna College is offering students to be a part of the Sports Academy. This is a fully integrated academic and sporting program for students specialising in the sports of AFL Boys, Basketball, AFL Girls, Netball and Soccer. The program will be conducted by Mr Chandler, Mr Santo, Mr Swinley, Mr Bailey and Mrs Gardiner.

Program aims:

- To provide diverse sporting and career pathways for students involved in the academy to meet their needs and develop their potential.
- Students who want to optimise their education with a balance of sport and academics.
- To develop strong partnerships with peak sporting organisations and related sports industries.
- To promote a “culture of excellence” with focus on academic, personal and sporting development.

Some of the topics covered include: Individual/team skill coaching, fitness testing, skill & game analysis, game strategies, individual skill practice and development, individualised strength and conditioning, coaching and umpiring, sports injuries and rehabilitation, nutrition for sports performance and recovery and fitness training methods.

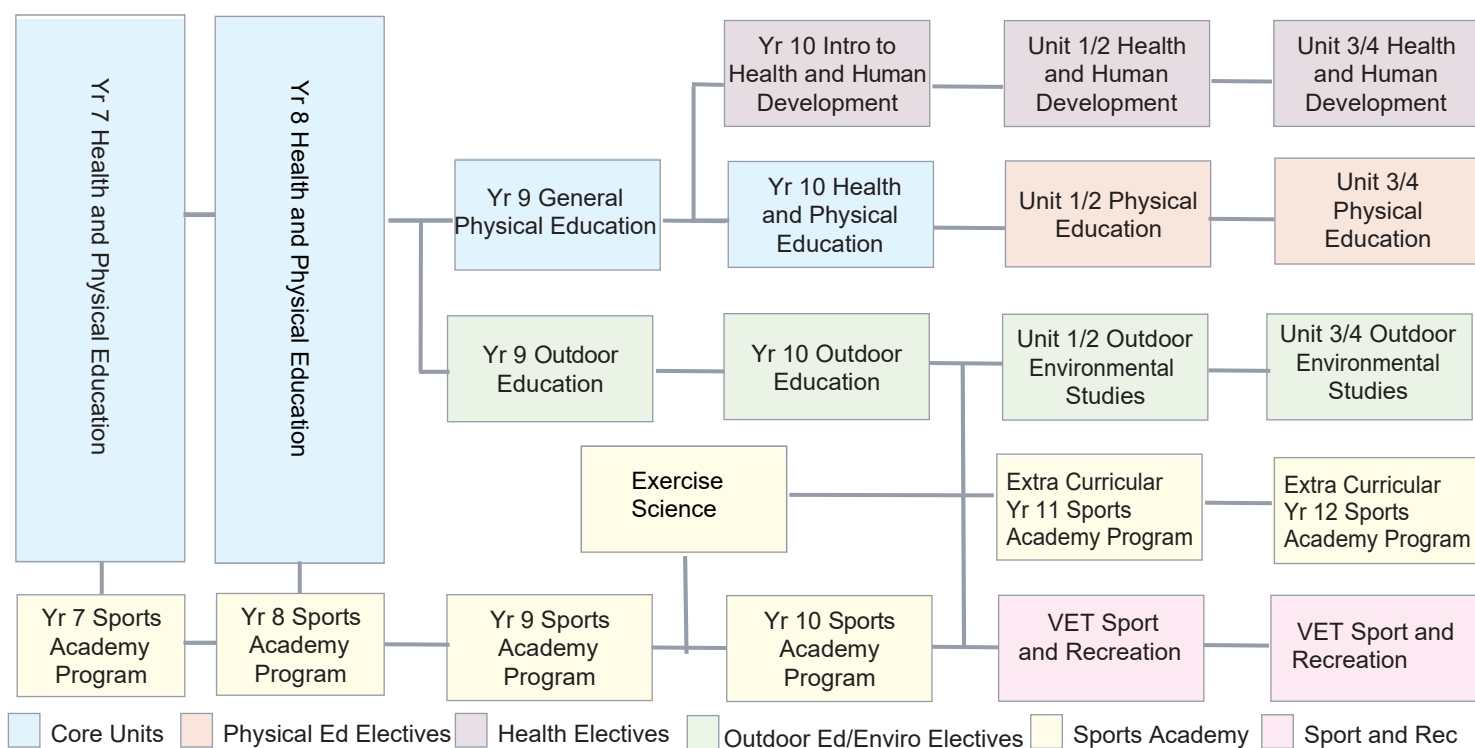
They Year 9 theoretical part of the program aims to increase the prior knowledge for both VCE PE and VET Sport and Recreation Certificate III.

This program will incur a fee of **\$450**. Due to the complexity of the timetable and the selection process, interested students and families are encouraged to seek further information from Mr. Allan Chandler.

Health & Physical Education



Pathways for Health & Physical Education



Career Pathways:

VCE-VM: Sports Coach, Sports Instructor, Retail Sales, Community Coach, Community Recreation

VET: Sports Admin, Development Officer, Events Coordinator, Camp Instructor, Fitness/Personal Trainer

VCE/Tertiary: Sports Admin, Teaching/Coaching, Physiotherapy, Occupational Therapist, Exercise Physiologist, Scientist

Core Humanities

History

Humanities is a compulsory subject in Year 10. All students will be required to complete the core requirements over one semester. The courses are prescribed under the compulsory Victorian Curriculum and include:

- History and the Modern World

Students delve into the causes of World War II including the making of The Treaty of Versailles and the rise of fascism, before learning about what occurred during the war itself.

History is concluded with Freedoms and Rights with a focus on Indigenous Australians. Students conclude the semester with preparation and understanding of the world of work before completing a week of work experience in an industry of their choice.

Humanities Electives

Freeks and Geeks: A Sociological Investigation of What is Normal

Ever wonder who decides what is considered 'normal' in society? This dynamic elective delves into the societal constructs and perceptions that shape our understanding of normalcy. Students will explore a range of compelling topics including teen pregnancy, the historical and cultural portrayal of witches, disability and mental health, the experiences and challenges faced by LGBTQI individuals, and the rich heritage of Indigenous Australians. Through critical analysis and open investigation, this subject aims to prepare students for undertaking further studies in VCE Sociology, while encouraging a deeper appreciation for diversity and inclusion in our society.

Small Business Accounting & Management

This unit introduces the principles of small business management. Students will focus on the process of designing a business concept and then putting this concept into action. Business concepts may involve virtual or real life situations which the students use to develop their understandings of small business. As part of the business design process students will learn basic single entry accounting and financial planning skills.

This unit is a good preparation for VCE Industry & Enterprise, Business Management and Accounting.

Examining Policing Roles, Training and Court Procedures: A Police Perspective

This subject dives into police officers' various tasks and responsibilities, highlighting their intense training and critical procedures. Students will learn about the everyday activities of law enforcement, the skills and knowledge required for effective policing, and the ethical considerations they must face. A major emphasis will be placed on crime scene examination and evidence-collecting, with students learning about the painstaking process involved in maintaining and investigating crime scenes. The training will also cover the path from the crime scene to trial, focusing on the police's role in the criminal justice system, such as evidence preparation, testimonies and interactions with legal experts. Students will get a thorough grasp of how police contribute to the criminal justice system by securing justice and public safety through interactive tasks and real-world case studies. This subject is great preparation for VCE Legal Studies and anyone wanting a career in the Legal field or Law enforcement.

Introduction to Law

In contemporary Australian society there is a range of complex laws that exist to protect the rights of individuals and to achieve social cohesion. Members of society interact with the laws and the legal system in many aspects of their lives. This unit enables students to become active and informed citizens by providing them with invaluable insights into their relationship with the law and the legal system. In addition, this unit will focus on the knowledge and skills necessary for students to undertake further studies in Units 1 and 2 Legal Studies. Areas of study will include:

- The Need for Law
- Sources of Law
- Types of Law
- The Court Hierarchy
- Changing the Law
- Domestic and International Terrorism

Humanities Pathways

Middle School Subjects

<ul style="list-style-type: none"> Core Humanities
<ul style="list-style-type: none"> Australian Studies Despots, Dictators & Democracy
<ul style="list-style-type: none"> The Environment Under Threat Introduction to Law
<ul style="list-style-type: none"> Small Business Accounting & Management

VCE Level 1 & 2 Units

<ul style="list-style-type: none"> History 1 & 2 Geography 1 & 2
<ul style="list-style-type: none"> History 1 & 2
<ul style="list-style-type: none"> Geography 1 & 2 Legal Studies 1 & 2
<ul style="list-style-type: none"> Business Management 1 & 2 Industry & Enterprise 1 & 2

VCE Level 3 & 4 Units

<ul style="list-style-type: none"> History Revolutions 3 & 4 Australian History 3 & 4 Geography 3 & 4
<ul style="list-style-type: none"> History Revolutions 3 & 4 Australian History 3 & 4
<ul style="list-style-type: none"> Geography 3 & 4 Legal Studies 3 & 4
<ul style="list-style-type: none"> Business Management 3 & 4 Industry & Enterprise 3 & 4

Languages

"Language skills and cultural sensitivity will be the new currency of the coming world order and provide the keys to participation in a global economy." General Peter Cosgrove, 2008

Knowledge of a foreign language can open doors to a wide range of employment opportunities in areas of business, teaching, government, tourism, travel, hospitality, translating and interpreting, automotive, medicine, engineering and journalism.

Whatever level of competence is attained, there are benefits to be gained from learning a language, such as:

- Enhancing literacy skills of ALL learners
- Building confidence
- Encouraging cultural awareness, tolerance and understanding
- Teaching students to be thinkers and problem-solvers
- Enhancing future job opportunities as well as expanding life opportunities and experiences

Lowanna College offers two languages: Italian and Indonesian through to VCE.

Students may choose to study a Language as a prerequisite for VCE Language studies or they may simply enjoy their study of Languages in Year 9 and/or Year 10. A benefit of selecting a Language in VCE is that it adds bonus points for their ATAR score (see your Language teacher and careers teacher for more information). Students studying a language have the opportunity to participate in excursions, locally and in the metropolitan area, exchanges and overseas trips.

Students who have demonstrated their skills in a language and/or are interested in continuing their Language studies should discuss their options with their Language teacher.

Year 10 Indonesian

Students will be undertaking a more detailed study of the language and will further develop their writing, reading, speaking and listening skills in Indonesian. More emphasis will be placed on grammatical concepts and communicative tasks in this language. Students will have the opportunity to participate in excursions.

Please note that Year 9 Indonesian is a prerequisite for this unit.

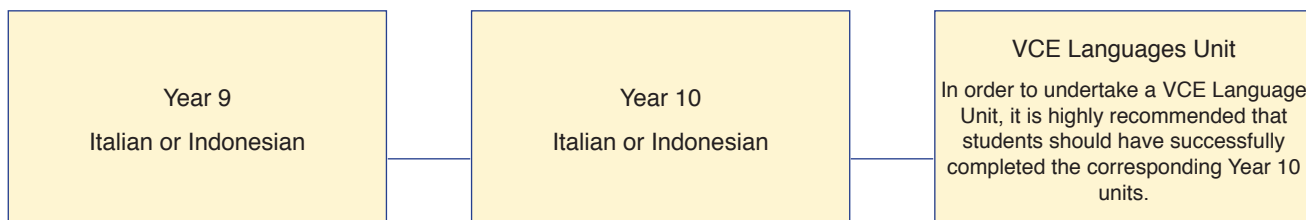
Year 10 Italian

Students will be undertaking a more detailed study of the language and will further develop their writing, reading, speaking and listening skills in Italian. More emphasis will be placed on grammatical concepts and communicative tasks in this language. Students will have the opportunity to participate in the Dante Alighieri Poetry Competition in Melbourne, and other excursions both locally and in the metropolitan area.

Please note that Year 9 Italian is a prerequisite for this unit.

Pathways to VCE

Students in Year 9 are encouraged to continue their studies in languages as a Year 10 students. Students in Year 9 who wish to continue their studies to VCE should choose Italian or Indonesian in their Year 10 Program. **In Year 10, Language units must be selected for both semesters.** Please read the information and description for each unit before making your selection.



Students who have demonstrated their skills in language study and/or are interested in continuing their Language studies should discuss their options with their language teachers and careers advisor.

Music in the Middle School should be viewed as a 4 unit course of study over two years, however there are prerequisites for entry into this study at any level (except for VCE Units 3 & 4).

This course covers Music Industry Skills, Class Band, Composing, Recording and Performing.

Students interested in developing skills and knowledge about music performance, song writing and industry skills can elect to pursue a course of study that is designed to sequentially build knowledge and understanding. The classes are based on themes with all performance content related to the theme; concerts are presented to the school and wider community. Students will be expected to develop musical literacy and numeracy and demonstrate a capacity to critically and creatively respond to a range of musical styles.

Students will study music appreciation, analysis of styles and genres, theory, composition, technical production and performance culminating in school based performance.

Composition is in the form of song writing where students have the opportunity to compose, arrange and record their work as part of the Kool Skools recording project. Kool Skools promotes, develops and supports a diverse range of talent and all genres of contemporary music writing and performance. Students are given the opportunity to work in a professional studio in Melbourne, recording their own material. Student will produce the artwork, photography, video and all the music as part of the project. Those who don't get to be a part of Kool Skools can still experience recording here at school.

This course will provide students with an entry to VET Music Technical Production, VET Music Performance or VCE Music Performance.

Year 9 and 10 students will complete Work Units in the following areas;

Song writing – students will learn how to manipulate musical elements and create a song of their own. Every music student from Year 9 to Year 12 has the option of auditioning to be a part of Kool Skools.

Kool Skools – students who have successfully auditioned their songs can be included in Kool Skools recording. Studio 52 in Melbourne provides students with the opportunity to record their works onto a professionally produced CD.

Class Band Ensemble – each year students from Year 9 – Year 12 prepare a selection of works based on a theme and present them in concert towards the end of semester 2.

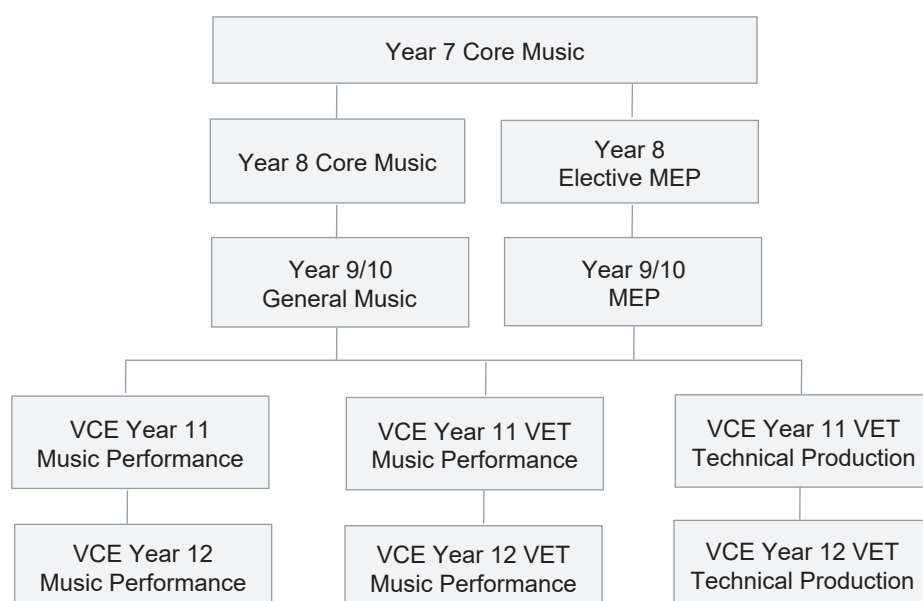
Music Prac – students will be encouraged to form small groups within class and prepare a range of music including covers of popular songs and their own compositions.

Theory and Composition – students will develop knowledge and understanding of theory and creative organisation of sound.

Music Industry – students will explore selected areas of the Music Industry including; stage set up, basic PA operation, set up and operation of lighting rig, basic management skills.

Pathways for Music

The completion of any of the selected VCE subjects lead on to the University and Job list below.



University Studies

Monash University,
Melbourne University,
Ballarat Academy of
Performing Arts (BAPA),
West Australian Academy
of Performing Arts
(WAAPA), TAFE, Collarts,
National Academy of
Music, Australian Institute
of Music (AIM), JMC and
College of Audio
Engineering

Jobs

Artist Management,
Recording Studio
Engineer, Visual Artist,
Videographer, Performer,
Production Services and
Education

Music Excellence Program

The Lowanna Music Department in 2025 will be offering students an opportunity to complete an intensive Music Excellence Program. This program will cover performance, composition, music technology and theory and allow students to develop skills in solo and group performance settings.

Students studying the MEP program will have the option of completing a range of musical performance and theory exams such as AMEB as well as completing modules from Certificate II in Music through COSAMP.

Note; Students will be performing in both a solo and group setting.

The Solo component is designed to provide students with the opportunity to develop performance skills whilst performing solo. Solo students will need to prepare and present in a formal performance at least 2 solo pieces per semester and will be in a formal concert setting to be decided on by the music department staff.

The Group component is designed to provide student with the opportunity to develop performance skills whilst working in a group. Group students will be required to prepare and present at least 4 pieces per semester and this will be in a formal school concert setting.

Students who wish to be a part of the MEP must present for a short audition and interview with the music department staff.

The course is set out with four outcomes:

Outcome 1 – Performance

- Solo Performance and Group Performance

Outcome 2 – Performance Techniques

Outcome 3 – Theory, Aural and Analysis

Outcome 4 – Composition and Music Technology

MEP students will complete modules from Certificate II in Music Performance and this will be a pathway to VCE VET Music in Year 11 and 12.

Year 9 & 10 Music Performance & Composition

This should be viewed a two year subject; Year 9= Year 1 and Year 10= Year 2 and is focused on a general music access model.

This subject is designed to allow students to develop their musical appreciation skills, instrumental skills, composition and music technology skills.

Students will develop skill in basic music theory and performance as well as exploring music technology through composing with software basic PA operation and recording and lighting operations.

Students will be expected to participate in class band and learn instrumental techniques required to present a range of selected songs in a range of styles and performance students can choose their own instrument to play in class band. All students will be expected to perform in end of semester and end of year concerts and soirees.

Students will explore music creativity through composition demonstrating understanding of theoretical and stylistic characteristics of selected styles. All original composition will be performed on instruments or using software.

Students will be able to record their compositions, class band or small group using the recording facilities at the College.

There is no pre-requisite for the study as it's aim is a general overview which will prepare students for further study in VCE or VET Music.



Yr 10 Food Safari

This unit includes both practical and theoretical components. In this unit students will explore food from regions across the world, including the influence of Australian indigenous food. They will examine how other cultures have impacted on modern Australian cuisine. Students will investigate the influence of food customs, cooking techniques and ingredients from other cultures on how we produce, prepare and consume food. A range of common assessment tasks will be completed by students for assessment of this unit.



Yr 10 Food Studies

This unit includes both practical and theoretical components. It is recommended that students who intend to undertake VCE Food Studies enroll in this unit. Students further develop their cooking skills through the preparation of a range of complex processes and develop their understanding of the functions of food and food science. Students will examine the themes of food security, ethical food production, food miles, food waste and fair trade, thus allowing them to become informed food consumers. A range of common assessment tasks will be completed for assessment by students of this unit.

Yr 10 Cafe Culture

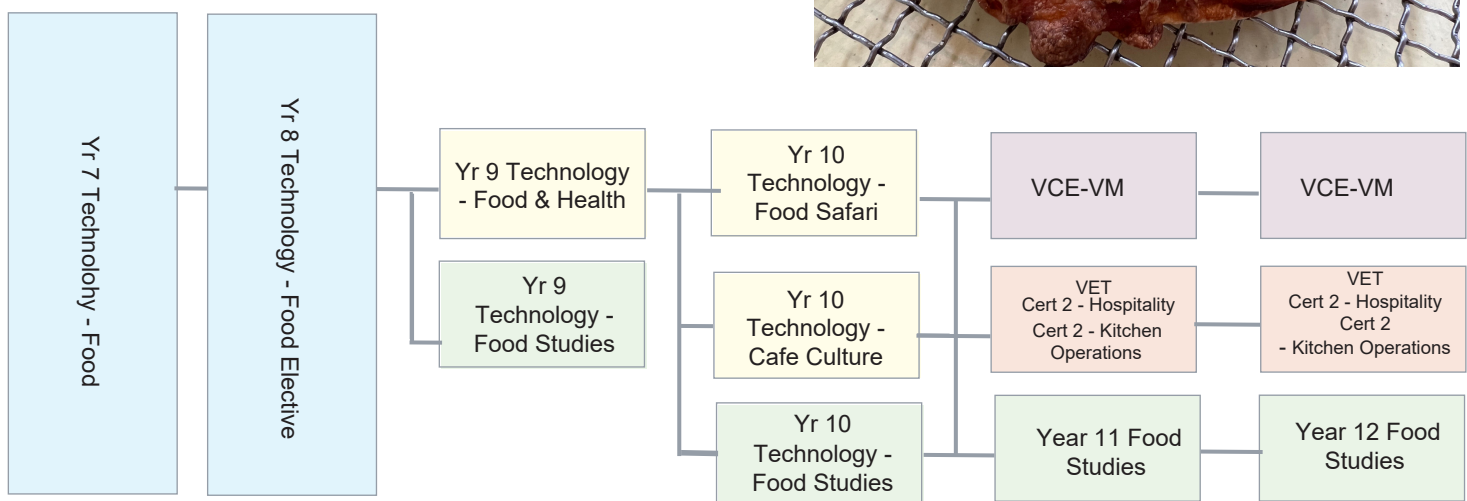
This unit includes both practical and theoretical components. Students will learn the skills they need to work in a café. Students will learn Barista skills, including how to operate a coffee machine and make a range of beverages. This unit will also focus on food safety and hygiene, current café trends and the production of café style foods. Students will design a menu suitable for a café that incorporates current trends and a range of sweet and savoury foods. As part of this unit, students will also undertake the Food Safety Handlers course and Prepare and serve espresso coffee.

This class will be assessed through practical and theoretical learning activities.

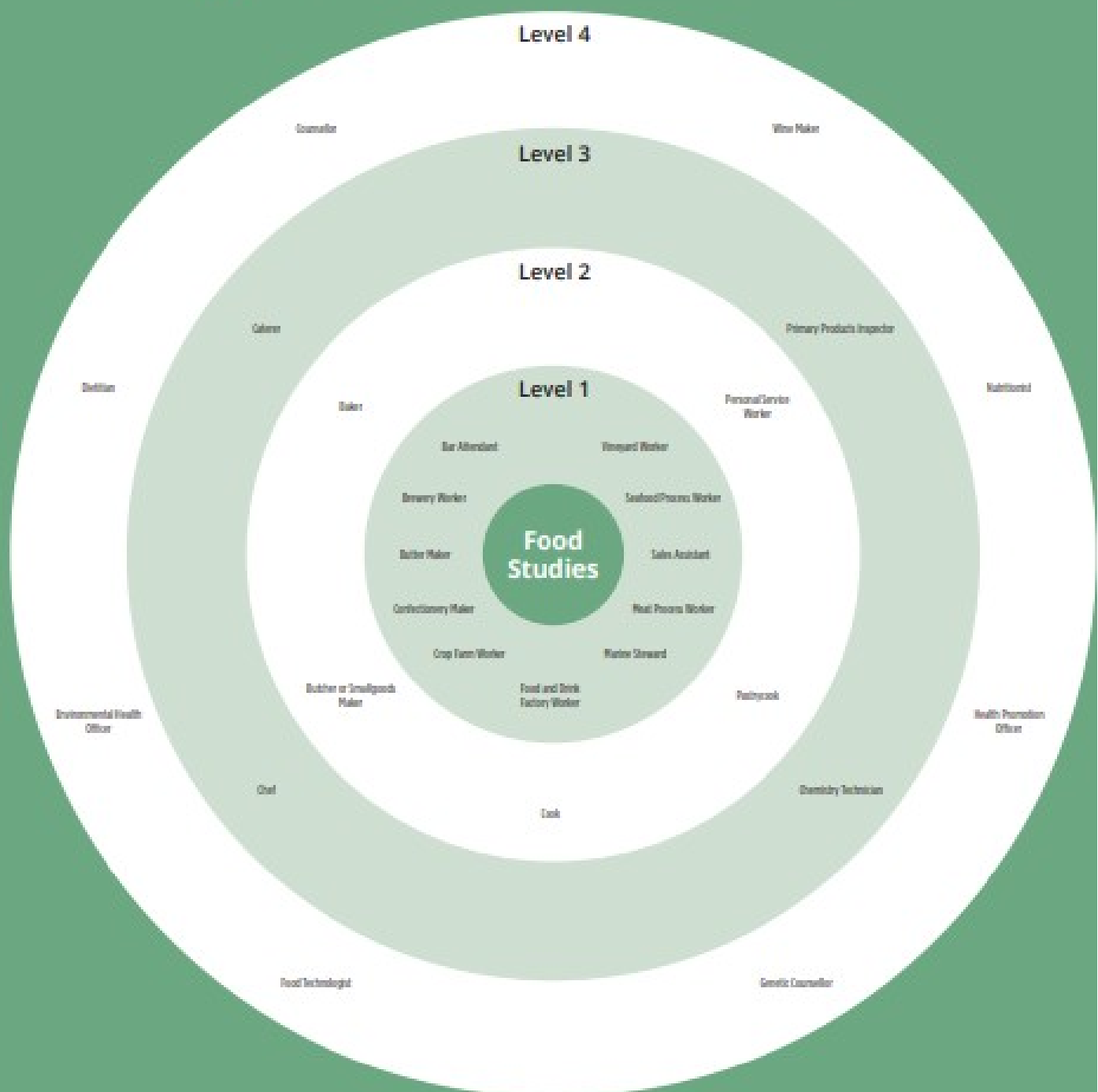
This unit will incur an additional cost of \$70 per student for the cost of the professional courses delivered. (Remainder of course costs will be subsidised by the school.)



Pathways for Food Technology



Do you enjoy or are you good at **Food Studies**?



Training levels and requirements

Level 1

Usually has a skill level equal to the completion of Year 10, a Senior Secondary Certificate of Education, Certificate I or II. Australian Apprenticeships may be offered at this level.

Level 2

Usually has a skill level equal to a Certificate III or IV, or at least three years relevant experience. Australian Apprenticeships may be offered at this level.

Level 3

Usually requires a level of skill equal to a Diploma or Advanced Diploma. Study is often undertaken through TAFE's or Registered Training Organisations. Some universities offer studies at this level.

Level 4

Usually requires a level of skill equal to a Bachelor Degree or higher qualification. Study is often undertaken at a university.

This chart shows a selection of occupations that have some relation to the subject of **Food Studies**. The four education and training levels are to be used as a guide only. These levels indicate the most common education and/or entry requirements for these jobs.

For further information, visit:
www.myfuture.edu.au



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Technology - Materials

Yr 10 Automotive Engineering

This unit will extend students' knowledge of emerging alternative fuels, advanced automotive systems, and the motorsports industry. Students will research and develop an understanding of the impact motorsport has had, and continues to have, on the modern automotive and related world industries.

Students will develop analytical and diagnostic skills using industry specific tools, equipment, and terminology. They will learn relevant safety and maintenance procedures and develop an understanding of the need for Risk Assessment, Job Safety Analysis, and clear communication in a workshop environment. Lastly, this unit will enhance the employment readiness of students by promoting contemporary and emerging career opportunities in automotive and related world industries.

Yr 10 Metalwork

Using a variety of ICT resources, students will investigate the properties and uses of materials, a range of communication techniques (drawing and sketching), production processes and design factors. Students will analyse and reflect on their design choices. A number of written investigations related to metals and techniques will be studied.

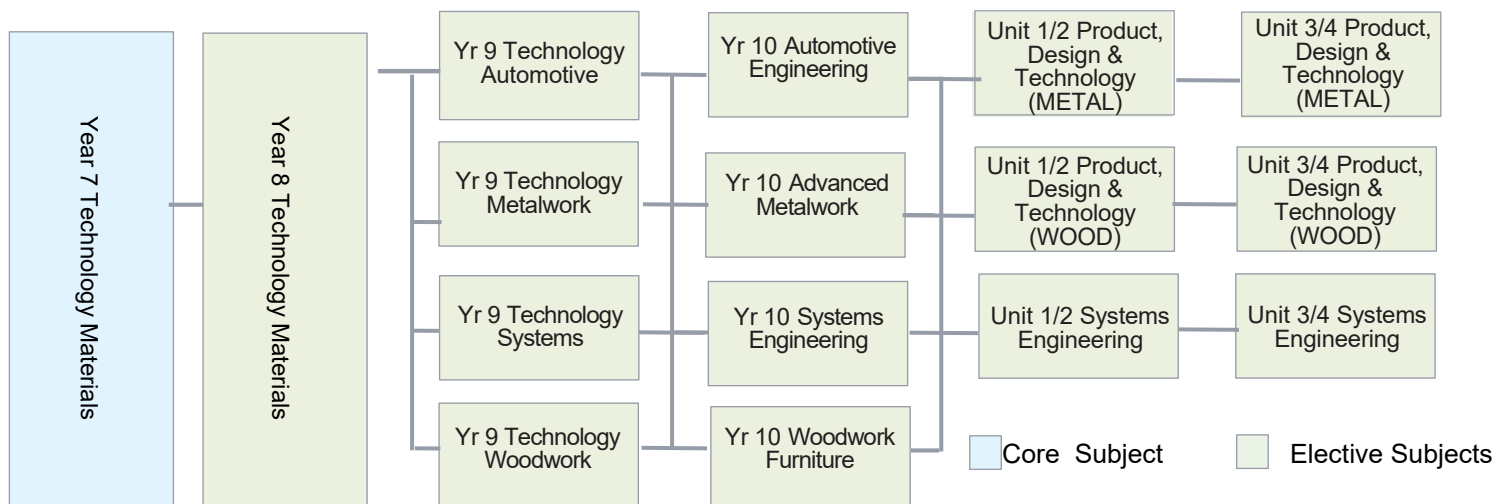
Yr 10 System Engineering

Students will advance their skills by delving deeply into the world of CAD (Computer Aided Design - 3D Drawings). Students will be required to convert a Piezoelectric speaker (same item in smoke alarms) and make it an electricity generator. They will need to research, design, plan and create custom CAD designs to provide a working solution. They will use the 3D printers to print their elements to make the wind (vibration) generator. Furthermore, students will learn about AC and DC electricity and make a bridge rectifier and voltage regulator to power a chosen device such as a phone.



Yr 10 Woodwork

In this unit students will use the technology process to design and manufacture a piece of useable furniture. Using various mediums, including ICT, students will be required to carry out investigations into available materials, research various design options and produce accurate working drawings. They will then produce using a combination of hand and power tools the project they have designed. During manufacturing it will be necessary for students to work together in teams to aid the smooth production of their projects. Participants in this unit will be required to reflect upon all aspects of their work. Completion of self-evaluation sheets during the course will be mandatory.



Career Pathways:

Tech Automotive: Mechanic, Diesel Mechanic, Small engine mechanic, Auto Electrician, Aeronautical engineer, Race engineer

Tech Systems: Electrician, Electrical Engineering, Automation, Transport, Renewable Energies, Mechatronics, Telecommunications, Control systems (robotics, signalling, CNC)

Tech Metalwork: Metalworker, Boiler maker, Specialist welder, Panel Beater, Fitter and Turner, Metal fabricator, CNC Production

Tech Woodwork: Carpenter, Cabinet Maker, Shop Fitter, Builder, Pattern Maker

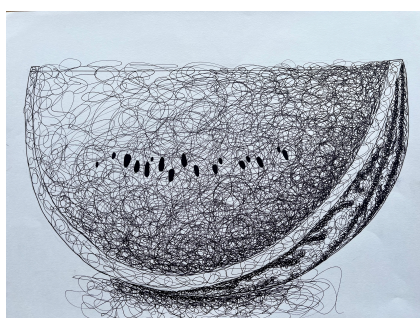
At least one unit is recommended to be chosen in your Middle School course for Year 9

- In all Arts units, students will be expected to maintain a workbook and to complete a research project.
- Please note that all items on the book list are essential (unless listed as optional) and contribute to a successful outcome in Art courses.
- Photography students and parents should note that they will be required to work in a number of locations including the darkroom, inside and outside the classroom where sometimes they will not be under direct teacher supervision. Students will be expected to behave according to school guidelines as set down in the Student Code of Conduct.

Painting and Drawing

This course is designed to build students technical skill and knowledge in the more traditional art styles. Students will experiment with a range of painting and drawing methods and develop compositional skills in arranging the the Art Elements and Principles. Students will work on a range of topics such as Still Life, Portraiture and Landscape. Emphasis will be on visual analysis and practical interpretation of a range of artistic styles. This course will allow students to develop a sound understanding of the aesthetic characteristics associated with each art movements.

This course gives students foundation skill and knowledge required for VCE Art Creative Practice.



Art Photography

This unit is an introduction to black and white photography and includes understanding the camera, processing films, printing and presentation of photos. Students wishing to take this unit are directed to the note on the top of this page concerning photography. Research will focus on photographic skills, studying renowned photographers and their work and the history of photography.

This course gives students foundation skill and knowledge required for year 10 advanced photography and digital photography.



Art Ceramics

This course covers hand building and decorative techniques and processes. Interesting art works will be made using the coil, pinch and slab techniques. Students will use sgraffito, inlaying, stamping, marbling, slip trailing, slip casting and painting techniques and a range of media to enhance sculptures and ceramic objects. Students will respond to the Arts through researching a variety of ceramic artists and styles through history.

This course gives students skills and knowledge for year 10 ceramics and VCE Art Creative Practice.

Art Visual Communication & Design

In this unit students will explore the language of Visual Literacy through the use of the Design Elements and Principles.

Students will develop skills in two and three-dimensional drawing, incorporating the use of ICT where possible, to produce final outcomes in the fields of Communication, Information and Environmental Design. Students will be provided with the opportunity to work to a design brief and they will be encouraged to use the design process as a way of evaluating their design ideas and solutions.

This course gives students skills and knowledge for VCE Art Creative Practice.

Pathways for Art

