



KYNETON HIGH SCHOOL

KYNETON HIGH SCHOOL

2024

YEAR 9 COURSE  
INFORMATION HANDBOOK

RESPECT DIVERSITY SUSTAINABILITY EXCELLENCE

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# SUBJECT SELECTION - FREQUENTLY ASKED QUESTIONS

## WHAT WILL I USE THIS HANDBOOK FOR, AND WHO NEEDS TO READ IT?

This handbook has been written for Year 8 students and their families to read. In Year 9 students are at a point in their education journey where they can have some choice in what they study. This handbook will help you understand what we mean by Year 9 Breadth subjects and which ones you can take at Kyneton High School in 2024. You will be provided with information in Home Group and will have time both in class and at home to make these decisions.

## WHAT'S THE DIFFERENCE BETWEEN A CORE SUBJECT AND BREADTH SUBJECT?

A core subject is one that every student in Year 9 will take. At Kyneton High School, the Year 9 core subjects are English, Maths, Humanities, Science, Health & Physical Education and Home Group. In these subjects, students learn the same content and skills and completing the same assessment across all classes in the same subject. Core subjects run across a full year. A description of each of these subjects can be found at the end of this handbook.

In Year 9 Breadth subjects are offered from the KHS Learning areas, allowing students some choice in the subjects, while ensuring the curriculum at Kyneton High School offers the entire breadth of the Victorian Curriculum. These choices allow you to explore subjects with the three learning areas that you are interested in or are already really passionate about.

The table below shows you how your time will be distributed across the different subjects in Year 9.

SEMESTER 1		SEMESTER 2	
SUBJECT	LESSONS / WEEK	SUBJECT	LESSONS / WEEK
English	4	English	4
Maths	4	Maths	4
Science	3	Science	3
Humanities	3	Humanities	3
Health & P.E.	3	Health & P.E.	3
Homegroup	2	Homegroup	2
Breadth 1	3	Breadth 3	3
Breadth 2	3	Breadth 4	3

## WHAT ARE THE BREADTH SUBJECTS ON OFFER AT KYNETON HIGH SCHOOL IN 2024?

At Kyneton High School in 2024, we offer a range of semester-long breadth subjects for students to choose from. These come from the KHS learning areas. These subjects described in detail in the following pages.

Please take the time to watch the videos presented by your amazing teachers for a detailed understanding of subjects: [Year 9 subject offering presentations link](#)

## HOW MANY BREADTH SUBJECTS CAN I CHOOSE IN YEAR 9?

To ensure a balanced curriculum all students must undertake AT LEAST 1 Breadth subject from the Creative Arts (Visual or Performing) Learning Area and AT LEAST 1 subject from the Technology Learning Area. Students can ONLY select 1 subject from the Humanities, PE and Science Learning Area. For example

- 2x Technology, 2x Creative Arts
- 2x Technology, 1x Creative Arts, 1x Humanities/PE/Science.
- 1x Technology, 2x Creative Arts, 1x Humanities/PE/Science.

Indonesian is only offered as a year-long elective, it will take up one Breadth elective for each semester. Students who opt to study Indonesian will be able to nominate any subjects as their first and reserve subjects for their remaining two Breadth spaces.

## HOW DOES THE SELECTION PROCESS WORK?

Homegroup teachers will guide students through the Year 9 Subject Selection Handbook, they will help students complete the online subject selection preference form, after students have had time to discuss option with their families & subject teachers.

## WHAT HAPPENS IF I DON'T GET MY FIRST CHOICE?

In some situations, you may not be able to get your first choice of subject in a particular learning area. This is why it's important to think about first and second (reserve) preferences when you are browsing through the handbook and talking to the people who are supporting you.

## WHO CAN I TALK TO FOR ADVICE ABOUT PARTICULAR SUBJECTS?

- Your Home Group teacher
- The LOTE, Creative Industries and Technology Learning Area Leaders (see contact details below).
- Your family, who have also been sent this handbook on the same day so that you may speak with them when you get home

## WHEN DO I HAVE TO MAKE THIS DECISION?

You will have until **Friday August 19, 2022** to submit your choices, so you have lots of time to talk to your subject teachers and to your family.

# KYNETON HIGH SCHOOL LEARNING AREA LEADERS

<b>CAREERS &amp; PATHWAYS</b>	Ms Kate Sims	<a href="mailto:kate.sims@education.vic.gov.au">kate.sims@education.vic.gov.au</a>	
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# ARTS

## Art & Design

### DESCRIPTION

Year 9 Art & Design offers further enrichment for budding artists and designers.

In this semester-based subject you will spend a term making Art, followed by a term exploring and developing a range of Design solutions.

The Art tasks will provide opportunities to explore a range of art forms & expressing yourself and developing your own unique ideas. We will create artworks using paint, drawing and sculpture.

The Design tasks will explore creative approaches to the use of Type, introduce and develop dynamic design layout, as well as develop architectural and landscape design drawing skills.

The Art and Design studies, while different, share many common skills both practically and creatively. Studying them together will not only provide multiple pathways, but will deepen your practice in both.

### WHAT OTHER FIELDS COULD THIS LEAD TO?

- Year 10 Art
- Year 10 Design
- VCE Art: Creative Practice
- VCE Visual Communication Design

#### Further Pathways

Artist: Painter, Printmaker, Sculptor, Digital Artist, Photographer, Ceramicist, Muralist, Portraitist, Textile Artist.

Design: Graphic Design, Product Design, Illustration, Landscape design, Architecture, Website & Interactive Design & UX design.

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

The practice of an artist is about exploring your idea as well as the potential of materials and methods of making to produce visual artworks. You will learn how to apply, explore, experiment with and develop methods of working with materials from charcoal and acrylic paint to papier mache and wire. You will learn how drawing and ideas are the building blocks of all art. You will learn to connect your own art practice with the works of artists and art movements of the past.

A short list of ART knowledge/skills:

- Expanding your drawing skills using a wide range of wet and dry media.
- Producing paintings that emulate a chosen art style and explore individual themes.
- Make sculptures learning skills such as fabrication and construction.
- Connect your new practice as an artist with the famous artists, artworks and movements which have gone before us.

The practice of a Designer reflects an understanding of design audience, purpose and context. A designer responds sensitively and creatively to a work brief, using a range of communications skills to do so. You will learn a range of these skills in yr9 Design.

A short list of DESIGN knowledge/skills:

- Developing and creatively manipulating Type in design to convey meaning.
- 2-point perspective drawing and architectural design.
- Developing plan views and landscape design.
- Production of logos using Adobe Illustrator, or alternative computer software for design.

### WHAT ELSE DO I NEED TO KNOW?

There are no additional costs, though there may be an excursion.

Most materials and equipment is provided by the school, but you will need a Visual Diary and a well-stocked pencil case.

## Fabrics & Fashion

### DESCRIPTION

This is a fun subject for budding Year 9 fashion designers who want to learn how to express their creativity by using a range of textiles and processes.

You will learn how to decorate and embellish fabrics as you explore how different cultures colour and dye fabrics. You will learn some basic embroidery stitches as you create embroidered artworks. You will get to make a felt bunny doll/toy and in the process get your sewing machine licence.

Studying Fashion Design will introduce you to some famous fashion designers from around the world and you will explore how designers create outfits using recycled fabrics and materials.

### WHAT OTHER FIELDS COULD THIS LEAD TO?

- Year 10 Art
- Year 10 Visual Communication and Design
- VCE Art: Creative Practice
- VCE Visual Communication Design

#### Further Pathways

Tertiary Study: Certificate III in Clothing and Textile Production, Apprenticeship as a Tailor/Dressmaker

Careers: Fashion Designer, Fashion Illustrator, Textiles Designer, Textiles Artist, Dressmaker, Seamstress, Tailor

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

You will build many skills in this subject including:

- Hand Sewing
- How to use a Sewing Machine
- Basic embroidery stitches
- Knitting
- Fashion Design Illustration
- Tie-dye and other fabric dyeing techniques.
- Screen printing
- Felt toy making

### WHAT ELSE DO I NEED TO KNOW?

Students might have to provide a T shirt or singlet top for dyeing or screen printing. Students may choose to purchase wool for knitting a scarf.

Speak to Ms Ashley or Ms Hasell if you would like to know more about this subject.

## Media

### DESCRIPTION

Year 9 Media is an exciting subject that offers a hands-on exploration of various media techniques, including video editing, photography, Photoshop, and analysis of advertising.

Through this course, you will delve into the fascinating world of media production, develop technical skills, and gain a critical understanding of visual communication.

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

What knowledge and skills will I build?

- **Digital Literacy:** Media equips you with essential digital literacy skills, enabling you to navigate and thrive in the digital landscape of the 21st century.
- **Creative Expression:** Media provides a powerful platform for creative expression, allowing you to communicate your ideas, stories, and perspectives through various media forms.
- **Technical Proficiency:** You will develop technical skills in video editing, photography, and Photoshop, providing you with valuable tools for future endeavours in media production.
- **Critical Thinking:** Media cultivates critical thinking skills as you analyse and deconstruct media messages, helping you become a discerning consumer and producer of media content.

## WHAT OTHER FIELDS COULD THIS LEAD TO?

What other fields this could lead to:

Year 10 Media  
VCE Media  
Design  
Photography

Further pathways:

Advertising and marketing, digital communications, digital content creation, journalism, film and tv production

## WHAT ELSE DO I NEED TO KNOW?

This subject will be a balance of both theoretical and practical explorations of Media. You will be required to learn about, and use, a range of software, so a desire to engage in developing computer skills is required.

# Theatre Studies

## DESCRIPTION

Year 9 Theatre is an ideal choice for students who are passionate about the arts, possess a creative spirit, and have a desire to express themselves through the power of performance. If you are an individual who enjoys stepping into different characters, embracing challenges, and working collaboratively with peers to bring stories to life, Year 9 Theatre is the perfect fit for you. This subject welcomes those who are curious, open-minded, and willing to explore the depths of their emotions while developing valuable skills in communication, empathy, and self-confidence. Whether you dream of becoming an actor, director, or simply want to enhance your creative abilities, Year 9 Theatre is a pathway that will ignite your passion for the dramatic arts and allow you to shine on and off the stage.

## WHAT OTHER FIELDS COULD THIS LEAD TO?

What other fields could this lead to?

Year 10 Theatre  
VCE Drama  
VCE Theatre Studies  
VET Creative Industries

Further pathways

Acting, teaching, digital content creation, directing and production and communications

## WHAT KNOWLEDGE & SKILLS WILL I BUILD?

What knowledge and skills will I build?

- **Self-Expression:** Drama provides a unique platform for self-expression and allows you to explore different facets of your personality through acting and storytelling.
- **Confidence Building:** Through drama, you will develop self-confidence, public speaking skills, and the ability to present yourself effectively, both on and off stage.
- **Collaboration and Communication:** Drama fosters teamwork, collaboration, and effective communication skills as you work closely with your classmates to create and perform together.
- **Creative Thinking:** Drama nurtures creative thinking, problem-solving, and the ability to think outside the box, encouraging you to explore new ideas and perspectives.
- **Empathy and Understanding:** Drama promotes empathy and understanding as you step into the shoes of different characters and explore their emotions and experiences.

## WHAT ELSE DO I NEED TO KNOW?

This class will be working towards a performance.

# ENGLISH

## Across the Universe: Creative Writing

### DESCRIPTION

*Across the Universe: Creative Writing* allows students to go beyond the regular English classroom to explore and develop their creative writing skills in more depth. Focusing on various forms and genres, students will develop a folio of writing reflecting their interests and passions. By taking inspiration from prominent writers throughout history, students will develop their own unique style and try out new techniques in their writing.

### WHAT OTHER FIELDS COULD THIS LEAD TO?

What other fields could this lead to?  
 Year 10 English  
 VCE English  
 VCE Literature

Further pathways  
 Creative Writing  
 Arts degree

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

Students will develop skills in employing literary devices in their writing including allegory, metaphor, imagery and symbolism. Students will improve sentence structure, increase their vocabulary and focus on structure. Through workshop sessions, students will gain insightful and clear feedback on their writing, then improve their work accordingly.

### WHAT ELSE DO I NEED TO KNOW?

There will be no added cost for this course.

Students may engage in local excursions in the Kyneton area.



# HEALTH & PHYS. ED.

## Outdoor Recreation

### DESCRIPTION

In Outdoor Recreation students learn to interact with outdoor environments in a safe and sustainable way.

Students will learn about these environments through a mix of theory and practical classes.

Students are expected to participate in two local excursions and a camp to develop skills in a variety of outdoor activities and put the knowledge learnt in class into action.

Students must have a sense of adventure and a willingness to take on new challenges to be successful. This is a great taster course for students wanting to complete VCE OES or Sport & Recreation in the senior school.

### WHAT OTHER FIELDS COULD THIS LEAD TO?

- VCE Units 1-4 Outdoor and Environmental Studies
- VET Sport and Recreation Cert. II.

#### Further Pathways

Tertiary Study: Cert IV in Outdoor Recreation, Bachelor of Outdoor and Environmental Education, Bachelor of Outdoor leadership/Education, Cert IV/Diploma in Nature Tourism, Bachelor of Applied Science (Human Movement), Bachelor of Physical Education, Cert III/IV/Diploma in Sport and Recreation

Careers: Outdoor Education Specialist, Outdoor Education Teacher, Environmental Scientist, Park Ranger, Tour guide

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

Students will learn to interact with outdoor environments in a safe and sustainable way, reducing their own and others' impact in natural environments.

Students will develop a range of Outdoor skills in relation to following:

- Rock Climbing
- Abseiling
- Caving
- Navigation
- Hiking
- Orienteering
- Canoeing
- Outdoor Living Skills
- First Aid

### WHAT ELSE DO I NEED TO KNOW?

There will be two local excursions and a camp in this course which will require payments on top of course fees, ~\$250 for the semester.

The camp and excursions are compulsory and directly link to assessment for the subject.

Please see the Health & P.E. Leader for more information.

# HUMANITIES

## The Real World - Understanding 21st Century Challenges

### DESCRIPTION

In this subject you will learn about and explore how the world shapes us, and how we can shape our world.

You will learn about the complex society you live in and build skills to meet future challenges.

It is a great subject for students who are curious about the world and how it works. You will be exploring and researching ideas with your classmates, as well as building your skills for future success.

### WHAT OTHER FIELDS COULD THIS LEAD TO?

This subject will build the creative and critical skills that will make you a better student in your future studies at school and beyond, in English, Humanities, Legal Studies, Sociology, Criminology, Psychology, Business and more.

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

- This subject will ask the big questions – you need to bring your energy and an open mind.
- Why do we think the way we do? What roles do our family, friends, community and the media play in shaping our beliefs, values and what we think is 'normal'?
- How do we all end up on different paths? Why do people step outside the boundaries?
- What are the challenges and benefits of living alongside other people who do not agree with us?
- How do social media and advertising have an impact on our lives?
- How can we be active citizens and involved in our communities?
- What challenges will we face in the future and do we build the skills to tackle them?

### WHAT ELSE DO I NEED TO KNOW?

If you would like to talk about what we will study in this subject, or whether it is the right choice for you, have a chat with your Humanities or English teachers, Mr Rickwood or Ms White, who would all love to discuss it with you!

# LOTE

## Indonesian (Second Language)

### DESCRIPTION

In an increasingly globalised world it is an advantage to have people equipped to participate socially and economically in this highly interconnected world.

Given the proximity of Indonesia and its relationship with Australia, this Asian language has great relevance for our students.

The Australian Curriculum emphasises the importance of our connection to Asia and in particular to South-East Asia. Australia's geographical position and geopolitical history has required and continues to require serious engagement with the languages and cultures of this region.

### WHAT OTHER FIELDS COULD THIS LEAD TO?

- Year 10 Indonesian (Second Language)
- VCE Indonesian (Second Language)

#### Further Pathways

Industry, Language Interpreters, Teaching, Public Service

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

Indonesian will be studied through the exploration of various themes related to both daily life and Indonesia. Some of the themes to be covered are Travel, Youth Lifestyles, environment, school life in Australia and Indonesia and animals. This will build students:

- Understanding of the Indonesian language and culture.
- An ability to converse and write about events that have been relevant to them in the past as well as those that are relevant now or in the future.

### WHAT ELSE DO I NEED TO KNOW?

Pre-requisite: A 3+ or higher in Year 8 Indonesian

Note, this is a year-long subject, so will take up 2 Breadth choices. Students who choose Indonesian will have free choice in their two remaining Pathway choices.

Our new pathway will give students the chance to explore different subjects during year 9 while retaining the option to enrol in the Indonesian elective in year 10. However, students opting for this pathway and choosing to study Indonesian in Year 10 will need to demonstrate acceptable literacy results to ensure their success in this subject. Additionally, the final decision will be subject to teacher judgment.

# SCIENCE

## Thugs and Bugs

### DESCRIPTION

Are you someone who is intrigued by the criminal minds that forensic science helps put behind bars? Or want to know more about how insects can contribute to the decomposition of a body? What about the importance of insects keeping the world fed and functioning as normal? In this class we will focus on many different aspects of forensic science and delve deeper into understanding the world of entomology.

Students must have a passion for hands-on Science and be eager to further develop their science inquiry skills and ability to investigate new concepts.

### WHAT OTHER FIELDS COULD THIS LEAD TO?

- **Year 10 Core Science**
- **VCE Biology**
- **VCE Psychology**
- **VCE Chemistry**

#### Further Pathways

Teaching, Forensic Scientist, Laboratory Technician, Entomologist, Cytogeneticist

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

- Trace Evidence Collection
- Blood and DNA Residue Analysis
- Handwriting and Forgery Analysis
- How to read a Crime Scene
- How to profile a Serial Offender
- Process of Decomposition by Insects
- Importance of Bees
- How to Classify and Collect Insects

### WHAT ELSE DO I NEED TO KNOW?

This course includes both theory and practical based learning.

A score of 3 in Year 8 Science or higher will be helpful.

There may be small additional costs associated with attaining resources e.g. shadow box for insect collection, etc.

# TECHNOLOGY

## Automotive / Engineering

### DESCRIPTION

This course is for students who are interested in developing their knowledge of Automotive and Engineering.

In Automotive the student will investigate the basic principles of mechanical systems and how they operate in automobiles and motorcycles through problem-based learning in assembly and disassembly projects.

In Engineering the student will develop skills in the engineering area. Included is the safe use of tools and equipment, solving practical problems, the development of a design folio and evaluation of the design and production process. Students are required to complete practical tasks starting with a figurine using nuts, bolts and steel tubes.

### WHAT OTHER FIELDS COULD THIS LEAD TO?

- Year 10 Automotive
- Year 10 Engineering
- VET Automotive
- VET Engineering

#### Further pathways

Apprenticeships: Automotive or Engineering fields

Careers: Engineering, Automotive Industry

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

- Safety in a workshop environment.
- Learning hand tool skills.
- Work collaboratively to get lawn mower motors running
- Different types of metals.
- Bending and joining metals.
- Basic welding.

### WHAT ELSE DO I NEED TO KNOW?

This course includes both theory and practical based learning.

## Creative Cooking

### DESCRIPTION

In this subject students will explore the more creative side of food preparation.

Using the design process they will investigate, design, produce and evaluate a range of recipes and menu options.

They will explore various cooking techniques and presentation ideas in order to present their products to a more professional standard.

### WHAT KNOWLEDGE & SKILLS WILL I BUILD?

- Food knowledge and uses
- Informed eating decisions
- Cake making techniques
- Culinary processes with a focus on creativity and food styling.
- Creating food for special occasions - Easter, Halloween, Christmas, High tea.

## WHAT OTHER FIELDS COULD THIS LEAD TO?

- Year 10 Fabulous Food
- VET Hospitality

### Further pathways

Apprenticeships: Hospitality (Baking, Chef, Butcher)

Careers: Hospitality, Nutritionist

## WHAT ELSE DO I NEED TO KNOW?

This course includes both theory and practical based learning.

If you love to be creative and enjoy food and eating this is the subject for you. Learn to create masterpieces in the kitchen - just like Masterchef.

# Digital Technologies

## DESCRIPTION

This course covers a range of topics relating to computer science, programming, and design including networks, cyber security, programming algorithms, data analysis and visualisation, and user experience design.

## WHAT OTHER FIELDS COULD THIS LEAD TO?

- Year 10 Digital Technology
- VCE Applied Computing

**Further pathways** Tertiary courses such as Computer Science, Information Technology, Web Design, and other STEM courses

## WHAT KNOWLEDGE & SKILLS WILL I BUILD?

- Data representation & compression
- Understanding networks and operating systems
- Web-site development
- Information privacy
- Developing algorithms
- Writing programs

## WHAT ELSE DO I NEED TO KNOW?

You will need a Grok Learning subscription installed on your device, which will cost ~\$30

# Food Technology

## DESCRIPTION

- Food Technology is an introductory subject that explores the design process allowing students to generate their own ideas, design solutions, generate their designs and then evaluate them. The subject does this through practical classes on a weekly basis where students will develop their culinary skills and knowledge through preparing a range of nutritious and fun dishes.

## WHAT KNOWLEDGE & SKILLS WILL I BUILD?

- Food Safety and Hygiene
- Fake-away- create your favourite takeaway meals at home.
- Compare pre-packaged and processed foods to homemade versions.
- Recipe development through the exploration of the design process.
- Explore food trends and culture
- Broaden culinary knowledge and skills
- Sustainable food practices - reduce food wastage.
- Where does our food come from and the science of food.

## WHAT OTHER FIELDS COULD THIS LEAD TO?

- VET Cookery
- VCE Food Studies
- VET Horticulture

### Further pathways

Apprenticeships: Hospitality (Baking, Chef, Butcher), Agriculture

Careers: Hospitality, Nutritionist, Food Technologist, Food Stylist, Home Economist, Dietitian.

## WHAT ELSE DO I NEED TO KNOW?

This course includes both theory and practical based learning.

This course is different to Creative Cooking - so if you have a love of all things Food and wish to improve your skills and knowledge in the kitchen you can do both.

# Woodwork

## DESCRIPTION

This course is for students who are interested in developing their knowledge of woodwork and design thinking.

In Woodwork the student will develop skills with a focus in joinery and furniture design and construction through practical projects. Students are required to work individually and in small teams to complete practical tasks consisting of a folding stool, an upcycling challenge and timber dressing and machining.

The student will learn how to measure accurately using steel rulers and tape measures and become familiar with some methods of joining materials. They will also become familiar with the safe use of basic cordless and electric tools.

## WHAT OTHER FIELDS COULD THIS LEAD TO?

- Year 10 Woodwork Pathway
- VET Building and Construction

### Further pathways

Apprenticeships: Cabinet or furniture making, Building, Carpentry, Bricklaying, Plastering

Careers: Cabinet or furniture making,

Builder, Carpenter, Bricklayer, Plasterer, Site Supervisor, Building Surveyor

## WHAT KNOWLEDGE & SKILLS WILL I BUILD?

This subject will build knowledge and skills to:

- Plan your work
- Select appropriate tools and equipment
- Learn about properties of different materials
- An understanding of forces acting on technology
- Work safely and productively
- Develop a 'can do attitude'

## WHAT ELSE DO I NEED TO KNOW?

Woodwork is a semester long subject, leading you into the Year 10 Woodwork Pathway.

# YEAR 9 CORE SUBJECTS

## English

In Year 9 English students build on the skills developed in Years 7 and 8, and learn to read, understand and write more sophisticated texts. Students study current events; looking at how a current issue is covered in the media and analysing how a point of view is presented persuasively. Students present their own point of view on different issues raised in the classroom. We study a range of different texts across the year, including visual texts.

Students use a variety of strategies to analyse these texts and demonstrate their understanding of the key ideas explored in the text. They build their essay writing skills in preparation for Senior English. Students also respond creatively, using their understanding of genre, audience and language to present creative responses to the texts they are studying. Both analytical and creative work is intended to introduce students to new ideas, language structures and vocabulary. This includes students continuing to read a wide range of texts at home.

## Humanities

The Year 9 curriculum provides a study of the history of the making of the modern world from 1750 to 1918. Students investigate how life changed in the period through the study of the Industrial Revolution, the colonisation of Australia, Federation and World War 1.

### GEOGRAPHY

In Year 9 students investigate the biomes of the world, their alteration and significance as a source of food and fibre, and the environmental challenges and constraints on expanding food production in the future. The distinctive aspects of biomes, food production and food security are investigated using studies drawn from Australia and across the world.

In the geographies of interconnection, students examine the effects of people's travel, recreational, cultural or leisure choices on places, and the implications for the future of these places.

### CIVICS AND CITIZENSHIP/ BUSINESS AND ECONOMICS

In Year 9 students focus on their role within the Australian political system. They investigate human rights, how citizens can influence the world they live in and play an active part within their local community. In Business and Economics students explore the world of work and managing personal finances.

## Homegroup

The Year 9 HomeGroup curriculum builds on concepts, skills, and techniques introduced in Year 8.

## Mathematics

The Year 9 Mathematics curriculum builds on concepts, skills, and techniques introduced in Year 8. These topics are extended and new topics are introduced to provide a sound basis for the study of mathematics in Years 10-12. All students are required to have a scientific calculator. The recommended scientific calculator is the Texas Instruments TIXB30 multiview.

The curriculum is divided into the three sections:

- Number and Algebra – simple interest, working with algebraic expressions, indices, linear equations, straight line graphs.
- Measurement and Geometry – surface area and volume of shapes, similarity of shapes, trigonometry, Pythagoras; Theorem.
- Statistics and Probability – chance events, calculating probabilities, data representation.

## Health & Phys Ed

Year 9 Health and Physical Education enables students to gain valuable, applicable lifelong knowledge and skills. Students will participate in a variety of individual and team sports. Skills learnt and enhanced include: athletics, striking and fielding, outwitting opponents and fitness lessons. These will be done by participating in various traditional and non-traditional sports and activities. Students have to plan and implement ways to improve their skills and performance in a variety of more technically demanding movements and participate in peer led activities. In health classes students examine many current societal health issues, including drug and alcohol (mis)use, sexuality in modern day society and resilience, rights and respectful relationships. The focus is on harm minimisation and strategies to help themselves, friends and the community.

## Science

In Year 9 Science students study multi-cellular organisms and how body systems work together to respond to changes in their environment.

Students learn that the interaction of magnets can be explained by a field model and that magnets are used in the generation of electricity and the operation of motors. They describe and analyse interactions and cycles within and between the earth's spheres.

Students explore the structure of atoms and the properties of different chemical experiments and learn that these reactions are important in both non-living and living systems and involve energy transfer.

Students will learn that scientific understanding, including models and theories, are contestable and are refined over time through a process of review by the scientific community.





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