



2025 SUBJECT SELECTION

YEAR 9

Respect

Learning

Community

Creativity

Contents

Year 9 English	5
Year 9 Mathematics	6
Year 9 Science	7
Year 9 Humanities & Social Science	8
Year 9 Health & Physical Education	9
Electives - Languages	
Year 9 German	10
Year 9 Indonesian	10
Electives – The Arts	
Year 9 Drama	11
Year 9 Media Arts	11
Year 9 Music	12
Year 9 Visual Art	12
Electives – Technologies and Business	
Year 9 Agricultural Practices	13
Year 9 Food & Nutrition Technology	14
Year 9 Design and Technologies	14
Year 9 Digital Technologies	15
Year 9 Business and Economics	16
Curriculum Progressions	17



Our Vision

Every individual discovering their passion on their pathway of learning

Our Purpose

To create an inclusive and respectful environment that fosters resilient, knowledgeable and globally connected individuals.

Our Motto

"Always Aim High".

Our Values

Respect, Learning, Community, Creativity

Our Explicit Improvement Agenda

Positive Culture, Engaged Learners, Connected Community

Choosing what to study in Year 9

Ferny Grove State High School offers a broad range of educational pathways in Junior Secondary. Our school aims to provide you with the opportunity to access learning experiences across the eight learning areas. Year 9 provides you with opportunities to develop your knowledge and skills in English, Mathematics, Science, Humanities and Social Sciences and Health and Physical Education. In addition, you start to select elective subjects to explore areas of particular interest to you. The decisions you make regarding subject choices are important because they will provide opportunities to begin to focus your pathway as you explore your interests, and continue to build a set of transferrable skills, knowledge and capabilities.

It is suggested that you choose subjects which:

- You enjoy;
- You have experienced some success in;
- will help you achieve your chosen career goals or keep your career options open;
- and will develop skills, knowledge and attitudes which are useful throughout your life.

If you follow these guidelines and ask for help when you need it, you should come up with a study program that is appropriate for you and that you will enjoy.

Guidelines

Keep your options open

At the moment you may not know exactly what you want to do when you finish school. This is normal at this stage of your life and means that it's important for you to explore many options. It is wise to keep your options open. This means choosing a selection of subjects that makes it possible for you to continue exploring possible pathways before making more specific decisions in the future.

Ferny Grove State High School requires that your study program include the following subject areas:

- English
- Mathematics
- Science
- Humanities and Social Sciences
- HPE

These study areas provide excellent foundation skills for both your future career and your life. In addition, you will be able to **choose** from a range of electives that are designed to develop your interests and practical skills.



Our Vision

Every individual discovering their passion on their pathway of learning

Our Purpose

To create an inclusive and respectful environment that fosters resilient, knowledgeable and globally connected individuals.

Our Motto

"Always Aim High".

Our Values

Respect, Learning, Community, Creativity

Our Explicit Improvement Agenda

Positive Culture, Engaged Learners, Connected Community

Students going into **Year 9** will be able to choose elective subjects for the year from the following:

Group A – Languages	Group B – The Arts	Group C – Technologies and Business
Indonesian	Drama	Agricultural Practices
German	Media Arts	Food and Nutrition Technology
German Immersion (Signature Program)	Music	Design and Technologies
	Visual Arts	Digital Technologies
		Business and Economics

In 2025, our Languages electives will run for one semester (**not German Immersion**).

If you are in the German Immersion Program, you will only be able to study **one** other elective subject from Group B or C, you must select German Immersion – Semester 1 and German Immersion – Semester 2 in the online selection process.

If you select subjects from Groups B and C, you will need to select **three** elective subjects.



Our Vision

Every individual discovering their passion on their pathway of learning

Our Purpose

To create an inclusive and respectful environment that fosters resilient, knowledgeable and globally connected individuals.

Our Motto

"Always Aim High".

Our Values

Respect, Learning, Community, Creativity

Our Explicit Improvement Agenda

Positive Culture, Engaged Learners, Connected Community

YEAR 9 ENGLISH

The Year 9 English Course for 2025 aligns with Version 9 Australian Curriculum.

Year Level Description	<p>The Year 9 English curriculum focuses on three interrelated areas: Language, Literature, and Literacy. These areas help you develop skills in listening, reading, viewing, speaking, writing, and creating. Your learning builds on what you've learned in previous years.</p> <p>In Year 9, you'll engage in different contexts, including local and global communities and potential career settings. You'll read and enjoy a variety of texts, including films, digital content, novels, non-fiction, poetry, plays, and more. You'll analyse, interpret, evaluate, discuss, create and perform a wide range of texts.</p> <p>The range of literary texts comprises the oral narrative traditions and literature of First Nations Australians, and classic and contemporary literature from wide-ranging Australian and world authors. The texts will come from different genres and may have complex plots and structures, exploring themes like human experience, relationships, and ethical issues. Informative texts will cover specialized topics with technical and abstract information, using complex language and supported by images and graphics.</p> <p>You will create a range of texts whose purposes may be aesthetic, imaginative, reflective, informative, persuasive, analytical and/or critical; for example, narratives, performances, reports, discussions, literary analyses, arguments, transformations of texts and reviews for a range of audiences.</p>
Pathways to Year 10	All students study English in Year 10.

YEAR 9 MATHEMATICS

The Year 9 Mathematics Course for 2025 aligns with Version 9 Australian Curriculum.

Year Level Description

In Year 9 you will use different ways to learn and practice math to understand concepts better, solve problems, and make connections. Becoming confident at math will help you handle both familiar and new situations by using mathematical strategies to make smart decisions and solve problems efficiently.

You'll further develop your math skills by:

- Applying scientific notation in measurement contexts, regularly considering accuracy in measurements and work with absolute, relative, and percentage errors.
- Working with the real number line: You'll learn to locate different fractions exactly and find some irrational square roots using Pythagoras' theorem.
- Using linear and quadratic functions: You'll model various situations and predict outcomes using tables, graphs, and algebra, including digital tools.
- Manipulating algebraic expressions: You'll work with variables, exponents, expanding and factorizing simple quadratic expressions using different techniques.
- Solving equations: You'll learn to solve linear and non-linear equations using numerical, graphical, and algebraic methods.
- Solving measurement problems: You'll calculate the surface area and volume of objects using formulas.
- Using geometric principles: You'll solve practical problems using similarity, scale, trigonometry, enlargement transformations, and Pythagoras' theorem.
- Investigating probabilities: You'll explore probabilities of compound events using Venn diagrams, tree diagrams, two-way tables, and grids. You'll design experiments to gather data and check your reasoning.
- Comparing data: You'll analyze multiple data sets, considering symmetry and skewness, and justify your choice of data representation. You'll also critically review how others present statistical data and their arguments.

You'll be assessed through exams and a Problem Solving and Modelling Task (PSMT).

Pathways to Year 10

Students have the opportunity to self-nominate for a Year 9 Mathematics Pathway in Semester 2. The Year 9 Mathematics Pathway classes will continue to teach and assess the same Year 9 Mathematics Curriculum as all other Year 9 Mathematics classes - however - the teaching and learning underpinning these classes will be tailored toward best preparing students for a mathematical pathway that leads towards *Year 10 Pre-Methods* and *Year 11 and 12 Mathematical Methods*.

In Year 10 students select either *Year 10 Pre-Methods* or *Year 10 Pre-Genera Mathematics*.

YEAR 9 SCIENCE

The Year 9 Science Course for 2025 is currently being re-written to align with Version 9 Australian Curriculum.

Year Level Description	<p>In Year 9 Science, you'll learn about how different systems work and how they stay stable when things change. You'll see how the human body reacts to changes around us through feedback mechanisms and how species adapt over time through reproduction. You'll also learn about atoms, made up of protons, electrons, and neutrons, and how they change through nuclear decay.</p> <p>You'll discover how matter can change through chemical reactions, which are important for many systems. You'll explore the ideas of conservation of matter and energy, and how energy is transferred. This includes looking at the global carbon cycle and understanding its impact on life on Earth. You'll start to think about how well a model or sample represents what you're studying and use evidence to support your ideas.</p> <p>To spark your curiosity and get you thinking, you'll explore questions like:</p> <ul style="list-style-type: none">• Why was the discovery of neutrons important?• How is scientific consensus established? What happens if it isn't?• Could synthetic organs make organ donation unnecessary?• How does the carbon cycle affect life on Earth?• How do different technologies help humans communicate?
Pathways to Year 10	All students study Science in Year 10.

YEAR 9 HUMANITIES & SOCIAL SCIENCE

The Year 9 Humanities and Social Science Course for 2025 is currently being re-written to align with Version 9 Australian Curriculum.

<p>Year Level Description</p>	<p>History – In Year 9, you'll study the history of how the modern world was shaped from 1750 to 1918. This time period saw big changes due to industrialization, which changed how people lived, worked, and thought. It was also a time of nationalism and imperialism, where European countries expanded their power, significantly affecting First Nations Peoples globally. This era ended with World War I (1914-1918), known as the "war to end all wars."</p> <p>You'll learn about the main events and changes from 1750 to 1918. This includes European expansion, the movement of people between countries, and how these changes impacted the Australian continent. This includes being introduced to the significant economic, social and political ideas that developed and caused change in groups and in societies, and some of the significant individuals and groups who promoted these ideas.</p> <p>In Year 9, you will focus on a range of units and topics linked to the major historical developments outlined above, examining their impacts at both a global and national level.</p> <p>Geography - In Year 9, you'll study two main topics:</p> <ol style="list-style-type: none"> 1. Biomes and Food Security: You'll learn about different biomes (like forests and deserts) and why they are important for producing food and fibre. You'll look at where these biomes are located, how they help with food production, and how we can keep our food supply secure. We will also consider the challenges of changing biomes and how we can sustainably produce more food in the future. You'll study examples from Australia and countries in Asia. 2. Geographies of Interconnections: You'll explore how people's choices and actions connect them to different places around the world. You'll learn about how these connections can change places and their environments. For example, you'll study how the products you buy connect you to the places where they're made and the impact of tourism and trade on these places. You'll look at examples from Australia and other countries. <p>Civics and Citizenship - In Year 9, you learn more about how Australia's federal government works and how it can make changes. You study how Australia's court system functions, including its role in using and interpreting the law. Additionally, you explore how Australia is connected to the rest of the world and how this affects modern Australian society and what it means to be a global citizen.</p>
<p>Pathways to Year 10</p>	<p>All students study a Humanities Subject in Year 10.</p>

YEAR 9 HEALTH & PHYSICAL EDUCATION

The Year 9 Health and Physical Education Course for 2025 is currently being re-written to align with Version 9 Australian Curriculum.	
Year Level Description	<p>In Year 9, you'll learn personal strategies for managing your identities, emotions and how to effectively respond to change. You will assess how your attitudes and beliefs concerning equality, respect, diversity and inclusion shape the nature and strength of relationships.</p> <p>You will have the opportunity to propose ways to navigate the online and offline environments where personal safety, relationships and wellbeing could be at risk.</p> <p>In our practical lessons you will learn to refine your movement skills and techniques whilst applying these to new or challenging situations whilst demonstrating leadership, collaboration and ethical behavior.</p>
Pathways to Year 10	All students study Health and Physical Education in Year 10.

ELECTIVES

All of our Elective Courses for 2025 are currently being re-written to align with Version 9 Australian Curriculum.

GROUP A - LANGUAGES

YEAR 9 GERMAN

Year Level Description	<p>In Years 9 and 10, as we learn German, we build on what we already know. We use German to chat with others and share our stories and experiences. We practice listening, speaking, reading, and writing to connect with German speakers locally and globally, in person and online.</p> <p>Units we cover include Shopping, Fashion, Masterchef and Daily Routine.</p> <p>We use different resources, like books, videos, and social media, to learn and create texts in German. We understand that culture shapes how people communicate and see the world, which helps us understand our own beliefs and values better. We also get support and feedback from our friends and teachers as we improve our German skills.</p>
Pathways to Year 10	German is an elective subject in Year 10.

YEAR 9 INDONESIAN

Year Level Description	<p>In Years 9 and 10, learning Indonesian builds on what we already know. We use Indonesian to talk about our lives and learn about others' experiences. We practice listening, speaking, reading, and writing so we can communicate with people who speak Indonesian, both locally and around the world, in real-life and online.</p> <p>We use different resources, like textbooks, videos, and social media, to learn and create Indonesian texts. We know that culture influences how people communicate and see the world, which helps us understand our own beliefs and values better. We also get help and feedback from our classmates and teachers as we learn.</p>
Pathways to Year 10	Indonesian is an elective subject in Year 10.

ELECTIVES

GROUP B – THE ARTS

YEAR 9 DRAMA	
Year Level Description	<p>In Drama class, we develop a range of valuable skills which can benefit everyone. We practice creating, performing, and understanding drama in fun and meaningful ways. We learn from performers and drama-makers from around the world.</p> <p>Here's what we focus on:</p> <ul style="list-style-type: none"> • Exploring and responding to different kinds of drama from various cultures and times, including drama by Indigenous Australian artists that show different aspects of Australian identity. • Developing practices and skills - making up our own drama stories and acting them out, using different elements of drama. • Creating drama in different ways, like making up scenes on the spot, using props or objects, or performing plays with scripts. • Performing our drama for others, whether it's in front of classmates or for community audiences. <p>We work together with classmates and teachers to learn more about drama, practice our acting skills, and share our stories and performances with others. It's all about having fun, being creative, and expressing ourselves through drama.</p>
Pathways to Year 10	Drama is an elective subject in Year 10.

YEAR 9 MEDIA ARTS	
Year Level Description	<p>In Media Arts class, we engage with technology and creative storytelling. We study different ideas and skills that help us understand how media works, like using technology, telling stories, and connecting with audiences.</p> <p>Here's what we focus on:</p> <ul style="list-style-type: none"> • Exploring and responding to how media from different cultures and times can tell stories and share ideas, and how makers connect with people who watch or listen, including media arts works created and distributed by First Nations Australians. • Developing practices and skills for making our own media projects using different styles and technologies. • Creating media arts works things like videos, audio projects, and even combinations of different types of media. • Screening or presenting works we produce - sharing our media projects with others, either in casual or more formal settings. <p>We work on our own and with classmates and teachers to learn more about media, be creative, and share our ideas with others through technology and storytelling.</p>
Pathways to Year 10	Media Arts will be an elective subject in Year 10.

YEAR 9 MUSIC

Year Level Description	<p>In Music class, we keep building on what we've learned before and our own experiences. We develop our skills in listening, creating music, and performing. We use what we learn to make music in creative ways, inspired by musicians from near and far.</p> <p>Here's what we focus on:</p> <ul style="list-style-type: none">• Exploring and responding to music and music practices from different cultures and times, including music by First Nations Australian artists that show different sides of Australian identity.• Developing our skills and practices - playing instruments, singing, and creating our own music in styles we like.• Composing our own music, making music by ourselves and with others, and using digital tools to create new sounds.• Presenting performances of our music for others, like putting on concerts for specific audiences. <p>We work together with classmates and teachers to learn more about music, try new things, and share our music with others. It's all about enjoying music and getting better at what we love to do.</p>
Pathways to Year 10	Music is an elective subject in Year 10.

YEAR 9 VISUAL ARTS

Year Level Description	<p>In Visual Arts class, we explore different ways of using art materials and techniques in creative ways. We get inspiration from artists around us, both locally and from all over the world.</p> <p>Here's what we focus on:</p> <ul style="list-style-type: none">• Exploring and responding to artworks from different cultures, times, and places, including artworks by First Nations Australian that show different perspectives of Australian identity.• Developing and practicing our creative skills, like coming up with ideas, making art in 2D, 3D, and even time-based forms, and using different techniques.• Creating artworks that tell stories or share ideas and feelings using different types of art materials.• Presenting our artworks to others, like setting up displays of our work or explaining what our art means through statements. <p>We work together with classmates and teachers to learn and grow in Visual Arts, exploring new ideas and making art that means something to us.</p>
Pathways to Year 10	Visual Arts is an elective subject in Year 10.

ELECTIVES

GROUP C – TECHNOLOGIES AND BUSINESS

Design and Technologies Electives

Design and Technologies - Year Level Description

In Design and Technologies classes, students use their knowledge, skills, and creativity to solve problems for people in their communities, whether local, regional, or global.

Students think about what the future should look like, considering ethics, laws, social values, and how to make things sustainable for the environment and society. They learn to think critically, come up with new ideas, and work well with others. They use data to analyze their ideas, listen to feedback, and improve their designs to make a better future.

Using different technologies and drawing techniques, students create plans and drawings to show their ideas in 2D and 3D. They might use software to communicate their designs to show others.

Students also learn how to plan out projects step-by-step, including time, cost, and what they need to do to stay safe. They manage their projects carefully and make changes when needed to get things done right and safely. They always keep safety in mind to make sure everyone stays safe while they work on their projects.

In Year 9, you have the opportunity to design and produce solutions in the following technologies contexts:

- Food and fibre production
- Food specialisations
- Materials and technologies specialisations.

YEAR 9 AGRICULTURAL PRACTICES

Food and Fibre Production

Technologies Context	Food and Fibre Production Food and fibre are essential resources that humans grow or harvest to live. They come from places like farms, gardens, and forests, and how we produce them affects our world. There are big challenges in producing enough food and fibre for a growing global population, especially with changes in climate and competition for land and water. These challenges affect how we can sustain our economy, environment, and society, and raise important ethical questions. In our studies, we'll explore how food and fibre are grown and harvested. We'll look for new and sustainable ways to produce these resources. Throughout the course, we'll learn about the systems that manage food and fibre production and come up with creative solutions to improve them. The course is run over a semester with one term focusing on a 'calf-rearing' program and the other term focusing on a chicken housing design and plant production program.
Pathways to Year 10	Agricultural Practices is an elective subject in Year 10.

YEAR 9 FOOD AND NUTRITION TECHNOLOGY

Food Specialisation

Technologies Context	Food Specialisations In this subject, we will learn about food and nutrition in the context of how we make food decisions, as consumers and cooks. We study how food is grown, prepared, and cooked, as well as modern issues related to technology and food. We will explore the growing awareness of the importance of eating nutritious food from ethical and sustainable sources, as well as how to design, select and prepare food that meets a variety of needs. To do this we study and use the design thinking process. This process involves identifying the needs of a brief or client, to researching a variety of impacts on decision making, and designing meals which can be justified and evaluated according to nutrition, ethical and sustainable standards. Overall, students will become conscious cooks who have developed an awareness of the impacts on our food choices.
Pathways to Year 10	Food and Nutrition Technology is an elective subject in Year 10.

YEAR 9 DESIGN AND TECHNOLOGIES

Materials and Technologies Specialisation

Technologies Context	Materials and technologies Specialisations In this subject, we explore a wide range of materials and technologies used in everyday life, from traditional to new and innovative ones. These include things like products, services, and places we use for work, health, fun, and getting around. But we're also learning how to do this sustainably, thinking about long-term impacts on our planet. We get to learn about how materials are chosen and used in different industries like manufacturing, architecture, electronics, fashion, and more. We'll understand what makes each material unique and how it can be used to create new and better solutions. Throughout the course, we'll also think about the ethical and sustainable choices we can make when designing and producing things. It's all about using our knowledge to create smart and responsible solutions for the future.
Pathways to Year 10	Design Technology and Industrial Manufacturing Technology are elective subjects in Year 10.

Digital Technologies Elective

DIGITAL TECHNOLOGIES	
Description	<p>In Year 9 Digital Technologies, students tackle real-world problems using computational thinking. They learn to break down complex issues, design and modify algorithms, and code in both Python and JavaScript. In the Lego EV3 Robotics unit, students use JavaScript powered by Microsoft MakeCode to create effective solutions tailored to defined user needs. They develop and refine algorithms using flowcharts, pseudocode, and test cases. By applying computational thinking and utilising Lego Robotics EV3, students define requirements, employ programming elements, and gather data through sensors. This unit emphasises project management skills and culminates in a multimodal presentation of their robot. In the Python Programming unit, students delve into text-based programming with Python, exploring essential aspects such as syntax, vocabulary, objects, methods, and advanced data structures like arrays.</p>
Pathways to Year 10	<p>This course prepares students for the Year 10 Information Technology elective.</p>

Business and Economics Elective

BUSINESS AND ECONOMICS

Description

In Year 9, students will learn how countries trade globally and depend on each other. The focus will be on Australia's interactions within the Asia Pacific region.

Students explore the effects of global trading and how businesses strive to stay competitive. Students will examine case studies to determine how business decisions impact global economies, businesses and consumers.

Through the lens of consumer risk and rewards, students analyse how Australia's financial sector influences our economy to benefit living standards.

Practical and real-world scenarios will help students to discover the how the world of work, business and consumers connects to our everyday lives.

Pathways to Year 10

Business is a full year elective subject in Year 10.
Economics is a semester elective for HASS in Year 10.

FERNY GROVE STATE HIGH SCHOOL – CURRICULUM PROGRESSIONS

LEARNING AREA	YEAR 7	YEAR 8	YEAR 9	YEAR 10	YEAR 11	YEAR 12
ENGLISH	English	English	English	English Literacy Short Course	English Literature Essential English	English Literature Essential English
MATHEMATICS	Mathematics	Mathematics	Mathematics Mathematics Pathway Sem 2	Mathematics Pre-Methods Numeracy Short Course	General Mathematics Mathematical Methods Specialist Mathematics Essential Mathematics	General Mathematics Mathematical Methods Specialist Mathematics Essential Mathematics
SCIENCE	Science	Science	Science Agricultural Science	Science Agricultural Science	Psychology Biology Physics Chemistry Agricultural Science Science in Practice	Psychology Biology Physics Chemistry Agricultural Science Science in Practice
HUMANITIES	History Geography Civics and Citizenship Economics and Business	History Geography Civics and Citizenship Economics and Business	History Geography Civics and Citizenship Economics and Business	Ancient History Modern History Extreme Geography Law and You (Civics and Citizenship) Economics and Business	Geography Economics Legal Studies Ancient History Modern History Tourism Social & Community Studies Business Accounting Business Cert III	Geography Economics Legal Studies Ancient History Modern History Tourism Social & Community Studies Business Accounting Business Cert III

FERNY GROVE STATE HIGH SCHOOL – CURRICULUM PROGRESSIONS

LEARNING AREA	YEAR 7	YEAR 8	YEAR 9	YEAR10	YEAR11	YEAR12
TECHNOLOGY	Food Technology Design and Technologies Information Technology	Health Design Design and Technologies Information Technology	Food & Nutrition Technology Design and Technologies Information Technology Agricultural Practices	Design Food & Nutrition Technology Industrial Technology Manufacturing Information Technology Agricultural Practices	Digital Solutions Cert III in IT Engineering Skills Furnishing Skills Industrial Graphics Skills Building & Construction Skills Design Food & Nutrition Hospitality Practices Agricultural Practices Engineering General	Digital Solutions Cert III in IT Engineering Skills Furnishing Skills Industrial Graphics Skills Building & Construction Skills Design Food & Nutrition Hospitality Practices Agricultural Practices Engineering General
HEALTH & PHYSICAL EDUCATION	Health & Physical Education	Health & Physical Education	Health & Physical Education	Health PE & Fitness Sport, Recreation & Fitness	Sport & Recreation Fitness – Cert III Health Physical Education	Sport & Recreation Fitness – Cert III Health Physical Education
LANGUAGES	German Indonesian	German Indonesian	German Indonesian	German Indonesian	German Indonesian	German German Extension Indonesian
THE ARTS	Drama Music Visual Arts Media Arts	Drama Music Visual Arts Media Arts	Drama Music Visual Arts Media Arts	Drama Music Visual Arts Media Arts	Drama Music Visual Art Visual Arts in Practice	Drama Music Music Extension Visual Art Visual Arts in Practice