St Patrick's College

Year 9 and 10

Curriculum Guide

2024

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Curriculum Overview – Year 9

Welcome to Year 9 at St Patrick's College

In this section, you'll find essential information about the subjects and courses of study for Year 9. Our goal is to provide a rich and engaging educational experience that fosters both depth and breadth of knowledge. We are committed to supporting your child's growth and development across all learning areas. Explore the diverse subjects offered and embark on an exciting learning journey with us. All subjects are written to the ACARA syllabus requirements and Religious Education uses the syllabus from Brisbane Catholic Education.

In Year 9, students undertake both core and elective subjects.

Core Subjects

Core subjects for students in Years 9 are studied for the whole year and include:

- Religious Education
- English
- Mathematics
- Science
- Health and Physical Education

In addition, all students undertake learning in the Humanities by studying:

- History for one semester
- At least one other Humanities subject for one semester:
    - Geography
    - Economics and Business
    - Civics and Citizenship

Elective Subjects

Elective subjects cover the breadth and depth of the Humanities, Languages, Arts and Technologies learning areas. Students select three electives for each semester and may choose more than one Humanities subjects if they desire.

TECHNOLOGIES	HUMANITIES	THE ARTS
Digital Technologies	Geography	Visual Art
Design Technology – Food	Economics and Business	Drama
Design Technology – Food, Fibre and Production (Agriculture)	Civics and Citizenship	Music
Design Technology – Materials (Woodwork)		
Design Technology - Engineering	**LANGUAGES**	
	French	

YEAR 9

Religious Education

THE NATURE OF JESUS

The Incarnation, Resurrection and Ascension of Jesus are foundational beliefs of Christianity. The Incarnation teaches that Jesus is fully human and fully divine. The resurrection of Jesus confirms his divinity and reveals God's gift of eternal life to all. The Catholic Church teaches that Jesus' risen body, bearing the marks of crucifixion, ascended into heaven. Students will have an opportunity to express ideas about the relevance and consequences of these foundational beliefs of Christianity for believers today (e.g. sacredness of human life, Church's teaching authority, commitment to continuing Jesus' mission to bring about the Kingdom).

THE OLD TESTAMENT AND DIVERGENT UNDERSTANDING OF GOD

Christianity, Judaism and Islam are monotheistic religions that share a belief in the one God (Allah, God, G*d). The three monotheistic religions have divergent understandings of God that are reflected in their beliefs and practices. Students will have the opportunity to explain why Christianity, Judaism and Islam can be defined as monotheistic religions, and to examine and discuss the understanding of God/Allah/G*d in the monotheistic traditions that is reflected in the core beliefs and practices of the religion.

LET THERE BE LIGHT

God created a world in a state of journeying to its ultimate perfection. The experience of sin throughout human history points to the presence of good and evil in an imperfect world. Two key principles of Catholic social teaching, namely respect for the dignity of the human person and human rights and responsibilities, provide guidelines for developing a healthy understanding of one's personal identity and of human relationships. Students will analyse and evaluate different perspectives on the dignity of the human person and human rights and responsibilities, and make judgements about behaviour towards oneself and others, based on these two key principles.

CHURCH HISTORY

In a time of great challenge and change (c.1750 CE - c.1918 CE), the Church had to respond to many internal and external threats to its physical existence, cultural influence, political influence, social structure, roles and relationships and economic power.

Recurring broad patterns of historical change (namely Construction: Searching for Unity, Order and Authenticity; Deconstruction: Challenges to Unity, Order and Authenticity; Reconstruction: Restoring unity, order and authenticity) are evident in the story of the Church in a time of challenge and change (c.1750 CE - c.1918 CE) as it was forced to question its nature and role in the world. Students will explain, discuss and compare different historical interpretations (including their own) about the Church's past (c. 1750 CE - c.1918 CE), using historical terms and concepts and acknowledging sources of information.

YEAR 9

English

Issues that Matter!

Engage with the pressing concerns of our time in "Issues that Matter!" This unit invites students to dive into the analysis of contemporary societal issues. Through a variety of activities, students will enhance their communication skills, learning to articulate their viewpoints clearly and persuasively. They will craft well-reasoned arguments, consider multiple perspectives, and present their ideas with confidence. This unit aims to develop critical thinkers who can actively participate in, and contribute to, societal discourse.

The Art of Survival: The Hunger Games

Immerse yourself in the gripping world of *The Hunger Games* with "The Art of Survival." Students will embark on an analytical journey through Suzanne Collins' acclaimed novel, focusing on its rich narrative elements. By dissecting character arcs, plot twists, thematic layers, and narrative techniques, students will sharpen their analytical and critical-thinking skills. This unit provides a platform for students to appreciate the intricate craftsmanship of the novel while reflecting on its social and political undertones, linking fiction to real-world contexts.

Beyond the Apocalypse

Enter the realm of dystopian futures in "Beyond the Apocalypse," where creative writing meets critical exploration. This unit challenges students to understand and create within the dystopian genre. Through world-building exercises, character development workshops, and thematic discussions, students will craft their own dystopian narratives. By studying influential dystopian texts, they will gain insights into the genre’s conventions and its capacity to critique societal issues. This unit not only fosters creativity but also encourages students to engage deeply with questions about society and human nature.

Decoding Archetypes

Unlock the mysteries of storytelling in "Decoding Archetypes." This unit delves into the recurring symbols, characters, and themes found across diverse literary works. Students will learn to identify and interpret archetypal elements, understanding their significance and impact on narrative meaning. By examining a variety of texts, students will uncover the universal patterns that resonate throughout literature, gaining a richer appreciation for the human experience. This unit nurtures a deep understanding of how archetypes function in storytelling and their enduring influence across cultures and time periods.

YEAR 9

Mathematics

Mathematical Modelling and Probability

In this engaging unit, students dive into the practical world of mathematical modelling and probability. They'll tackle real-world problems involving ratios, similarity, and scale in two-dimensional contexts. Through hands-on activities, learners will develop critical evaluation skills as they create and assess mathematical models addressing issues of direct proportion, ratio, and scale. The unit also explores enlargement transformations, challenging students to interpret the outcomes when shapes and objects are scaled. Probability concepts round out the curriculum, with students determining outcome sets for compound events and assigning probabilities. Digital tools will be employed to design and conduct experiments for combined events, bringing probability to life through practical applications.

Advanced Algebra and Trigonometry

Venturing into advanced mathematical territory, this unit equips students with powerful tools for solving complex problems. Rational and irrational numbers take center stage as students explore their properties and applications. Exponent laws are extended, while techniques for expanding binomial products and factorising monic quadratic expressions are mastered. The curriculum delves into practical applications, covering percentage errors in measurements and the use of Pythagoras' theorem. Right-angled triangles become a playground for applying trigonometric ratios. To cap it off, students learn to express extreme numbers using scientific notation, a crucial skill for handling real-world data.

Cartesian Geometry and Mathematical Modelling

Cartesian geometry and mathematical modelling form the core of this comprehensive unit. Students will navigate the Cartesian plane, solving problems involving distances, gradients, and midpoints. Financial and applied contexts become fertile ground for mathematical modelling, with a focus on linear and quadratic functions. Graphing quadratic functions and solving monic quadratic equations with integer roots algebraically add depth to the learning experience. Throughout the unit, digital tools enhance understanding by providing visual connections between graphical and algebraic representations.

Geometry and Data Analysis

Practical problem-solving takes centre stage in this unit, combining geometric principles with data analysis techniques. Students will apply formulas to determine surface area and volume of right prisms and cylinders, while also designing and testing algorithms based on geometric constructions or theorems. Data analysis skills are honed as learners compare and analyse multiple numerical data sets, employing appropriate representations and summary statistics. The unit culminates in a critical examination of how outliers, sampling techniques, and data representation can influence conclusions and promote viewpoints, fostering informed decision-making skills.

YEAR 9

Science

Earth Systems: The Planet's Recycling Process

Dive into Earth's intricate web of interconnected systems. Students explore the dynamic cycles that sustain life, gaining a comprehensive understanding of our planet's self-regulating processes. From the water cycle to plate tectonics, this unit reveals how Earth constantly recycles its resources to support all living things.

The Immune System: Shielding Communities from Disease

In an era of global pandemics and resurgent illnesses, students investigate the marvels of the human immune system. They unravel the body's defense mechanisms against infections and explore the crucial role of vaccination in preventing disease outbreaks. Using measles as a case study, students learn why some diseases make unexpected comebacks and how we can protect our communities.

Predatory Plants: Nature's Unexpected Hunters

Venture into the captivating world of carnivorous plants. Students discover how these botanical predators have evolved specialized structures to thrive in nutrient-poor environments. From Venus flytraps to pitcher plants, this unit showcases nature's ingenuity in adapting to challenging conditions.

The Survival of Species: Animal Dating 101

Explore the diverse world of animal reproduction. Students investigate various strategies animals use to ensure the survival of their species. By creating a "dating profile" for a specific animal, they creatively demonstrate their understanding of different reproductive organs, behaviours, and adaptations.

Atomic Building Blocks: Seeing the Unseen

Delve into the microscopic realm of atoms. Students explore the fundamental particles - protons, neutrons, and electrons - that make up all matter. They learn about cutting-edge imaging technologies like neutron scanners, discovering how our understanding of atomic structure allows us to see the world in unprecedented detail.

Chemical Reactions: Explosive Discoveries

Ignite curiosity with an exploration of chemical reactions. Students investigate various processes, including the dramatic reaction between sodium and water. By examining recent scientific findings that challenge traditional explanations, this unit encourages critical thinking and demonstrates the evolving nature of scientific knowledge.

YEAR 9

Science

Waves: The Science Behind Video Calls

Uncover the physics that makes modern communication possible. Students develop models of global telecommunication, examining how sound and light waves carry information across vast distances. From smartphones to fibre optics, this unit reveals the wave phenomena that connect our digital world.

Energy Conservation: Harnessing the Power of Waves

Ride the wave of energy transformations. Using examples like roller coasters and ocean swells, students explore how energy changes form but is never lost. They investigate the potential of wave energy for electricity generation, bridging theoretical concepts with real-world applications in sustainable energy production.

Non-Contact Forces and Electricity: Reimagining Transportation

Challenge students to become innovative engineers as they design futuristic modes of transport. By exploring non-contact forces and their potential applications, this unit encourages creative problem-solving in addressing current transportation challenges. Students envision and develop sustainable travel solutions, pushing the boundaries of what's possible in modern transit.

YEAR 9

Health and Physical Education

Field of Champions

Crafting Sporting Greats! Get ready to dominate the court in this thrilling unit focused on basketball and netball! As you master these dynamic sports, you'll not only enhance your movement skills but also become an expert in self-evaluation and peer feedback. Picture yourself analyzing plays in real-time, making split-second decisions, and adapting to challenging situations. This unit is designed to sharpen your critical thinking on and off the court, elevating your game to new heights. Through a series of engaging drills and matches, you'll develop your adaptability and creativity, transforming into a versatile and innovative player. Join us for an exhilarating journey that will boost your physical prowess and game intelligence!

The Dream Team

Lace up your boots and prepare to lead your team to glory in the world of football! This unit isn't just about perfecting your kick or mastering your defensive skills – it's about becoming a true leader on and off the field. You'll tackle real-world scenarios that challenge your decision-making abilities and ethical judgment. Learn how to inspire your teammates, collaborate effectively under pressure, and make tough calls when it matters most. By the end of this unit, you'll have the skills to not only play the game but to shape its outcome through strategic thinking and principled leadership.

Wellness Warriors

Embark on a 12-week odyssey into the realms of nutrition and recreational fitness! This action-packed unit blends crucial health knowledge with exciting physical activities to keep you engaged and energized. You'll discover the secrets of balanced nutrition while participating in a variety of fun recreational activities. From decoding food labels to trying out trendy workout routines, this unit offers a perfect mix of theory and practice. Get ready to transform into a true Wellness Warrior, armed with the knowledge and skills to make informed health choices and enjoy an active lifestyle!

YEAR 9

History

Making and Transforming the Australian Nation

This unit explores the formation and development of Australian society from the late 18th to early 20th century. Students examine European imperial expansion, its impact on First Nations Peoples, and the key social, cultural, economic, and political changes that shaped our nation. They investigate significant events, ideas, people, and movements, analysing continuities and changes in ways of life, political institutions, and cultural expressions. The unit also covers different perspectives of colonisers, settlers, and First Nations Australians, and how these experiences influenced Australia's evolving identity. Students will contextualise Australia's development in relation to other nations by 1914, considering the effects of global ideas and movements.

World War I

Students delve into the causes, events, and impacts of World War I on Australian society. They explore the reasons behind Australia's involvement, examining significant battlegrounds like Gallipoli, the Western Front, and the Middle East. The unit covers key turning points, the nature of warfare, and its effects on Australian society, including the role of women, political debates, and the experiences of returned soldiers. Students also investigate the commemoration of WWI, analysing different historical interpretations and debates about the Anzac legend's significance.

YEAR 9

Humanities and Languages Electives

Geography

Biomes and Beyond: Exploring Global Food Systems

This unit focuses on the world's biomes, their characteristics, and significance as sources of food and fibre. Students examine biome distribution and their role in food production and security. They explore the effects of biome alteration and the challenges of expanding sustainable food production. The unit emphasizes studies from Australia and Asian countries, encouraging students to think critically about global environmental issues and food sustainability.

Global Interconnections: Exploring People and Places

Students investigate how people's choices and actions connect them to places worldwide. They examine the nature of these connections through product consumption and production, analysing their effects on different environments. The unit also covers the management of tourism and trade impacts on places. Drawing on examples from Australia and other countries, students develop a deeper understanding of global interconnectedness and its influence on places and environments.

Economics & Business

Business Insight: Navigating Financial Risks and Rewards

This unit explores consumer and financial risks and rewards within the Australian economy. Students examine the financial sector's influence on economic decision-making and its contribution to a prosperous economy. They analyse different strategies for managing financial risks and rewards, and investigate the roles and responsibilities of workplace participants. Through research and analysis, students develop critical thinking skills, framing investigations of economic issues, gathering data from various sources, and proposing courses of action using cost-benefit analysis. The unit challenges students to apply their economic and business knowledge to both familiar and hypothetical scenarios.

Best in the Business: Skills for a Competitive Edge

Students explore the dynamic and competitive nature of today's business environment. They investigate the range of skills needed to provide value as an employee and gain a favourable position in wage negotiations. The unit covers labour laws and business strategies for attracting top talent. Students examine Australia's financial sector, international trade patterns with Asia, and the concept of competitive advantage in business. Through research and analysis, they develop skills in interpreting economic trends, assessing consumer and financial impacts, and

evaluating responses to economic and business issues. This unit prepares students to navigate the complexities of the modern business world.

Civics and Citizenship

Democracy in Action: Navigating Australia's Political Landscape

This unit provides students with a comprehensive understanding of Australia's political system and its capacity for change. Students examine the influence of political parties, interest groups, media, and individuals on government and decision-making processes. They also explore global connectedness and its impact on contemporary Australian society. Through critical analysis of various sources, students compare different interpretations of civics and citizenship issues. The unit encourages active citizenship by teaching students to negotiate solutions to issues while considering multiple perspectives and democratic processes.

Justice in Action: Understanding Australia's Legal System

Students delve into the intricacies of Australia's court system, exploring its features, principles, and role in applying and interpreting Australian law. They analyse key principles of Australia's justice system and the court's function within it. The unit develops students' research skills as they investigate Australia's legal systems, critically evaluating information from diverse sources. Students learn to construct evidence-based arguments on civics and citizenship issues using appropriate texts and subject-specific language. By examining ways to be active and informed citizens in various contexts, this unit prepares students for engaged participation in Australia's legal and civic spheres.

French

Bon appétit

Prepare for a culinary adventure! In this unit, students master the language of dining as they explore French cuisine. From ordering food and drinks to expressing their preferences, students navigate the world of gastronomy. Learn about the etiquette of accepting and refusing offers, while expressing gratitude for delightful meals and proposing toasts in celebration. Indulge in the exploration of French cuisine, from traditional dishes to regional specialties, and immerse yourself in the events that celebrate the culinary delights of France.

Mes journées sont bien remplies

Get ready for a full day of exploration! In this unit, students will become familiar with the daily rhythms of French life. They learn to navigate conversations with greater ease as they master using numbers, asking for the day and date, and discussing plans. Students learn to arrange

meetings, discuss routines, and express preferences for activities. Jump into the vibrant world of French leisure pursuits and discover popular pastimes, gaining insights into French daily routines and recreation activities, enriching student understanding of French culture and lifestyles.

YEAR 9

Technologies Electives

Digital Technologies - DigiTech

This unit introduces students to key layers of webpage development that represent content, structure and presentation. Students develop simple webpages employing hypertext markup language (HTML) for the structure of webpage content, as well as Cascading Style Sheets (CSS) for styling. They explore aesthetics in modern webpage design, and accessibility for diverse audiences. Optionally, students learn how to integrate JavaScript programming for more advanced webpage behaviour.

Design Technology - Materials

Hands-On Craftsmanship: Designing and Building a Fishing Rod Holder

In this unit, students will develop hands-on skills by designing and constructing a fishing rod holder using various workshop tools and machines. They will start with mandatory Onguard safety training to ensure a thorough understanding of safe workshop practices. Students will then engage in all stages of the project, including planning, material selection, and construction. Emphasis will be placed on precision, tool usage, and adherence to safety protocols. By the end of the unit, students will have a functional fishing rod holder and enhanced technical skills in workshop practices.

Elegant Craftsmanship: Designing and Building a Hall Table

In this unit, students will engage in a comprehensive project to design and construct a stylish hall table using a variety of workshop tools and machines. Students will then proceed through the stages of the project, including design planning, material selection, and the construction process. They will learn to apply woodworking techniques and tool operations to create a functional and aesthetically pleasing hall table. Emphasis will be placed on the design process. By the end of the unit, students will have a completed hall table and gained valuable experience in using workshop tools, project management, and quality craftsmanship.

Design Technology - Graphics

From Concept to Creation: Exploring 3D Printing and Design in Engineering

In this unit, students will delve into the world of 3D printing and design as they explore engineering principles and systems. Students will learn about the process of designing and prototyping 3D printed objects while focusing on creating a unique souvenir for their school's Showcase.

Crafting with Precision: Designing and Laser Cutting Personalised Gifts

In this unit, students will explore laser cutting to create personalised gifts. They will learn to design and model custom items using CAD software, understand material properties, and operate laser cutting machines. The unit emphasises creativity, technical skills, and personal expression, culminating in a unique, handcrafted gift project.

Design Technology - Engineering

Basic products and procedures used for working in metal fabrication

Students will learn to use basic hand and power tools for sheet metal marking, cutting, folding and joining. They will combine these skills to produce a lidded toolbox. Students will learn to use basic hand and power tools for solid steel marking, cutting and shaping. They will combine these skills to produce a steel battery terminal puller.

Design Technology - Food

Mood and Food

As a student specialising in Food this term, your task involves delving into the realm of affordable superfoods known for enhancing brain function and overall health. In a group, your mission is to create a recipe utilising one or more of these researched superfoods, which you'll then present to your designated client along with a visually engaging poster or flyer. Keep in mind that your audience for this assignment is a Year 9 student. It's essential to reach out via email, confirming their availability for your meal on the scheduled day.

Pimp My Biscuit

This term you will learn about what it means to be a real-life Food Technologist! When people are creating food items, they need to understand flavour pairing and delicious combinations.

Your design challenge is to create a hypothetical brand that sells ‘pimped up’ Anzac Biscuits. The aim is to take the Aussie favourite and amplify it! You will trial different flavour combinations and justify your favourite.

Design Technology - Food, Fibre & Production

Sustainable Market Gardening: Designing and Implementing Efficient Garden Systems

In this unit on market gardening, Year 9 students will design and implement a market garden. Working in small groups, students will complete a mini design project involving two key components: creating a trellis from recycled materials and selecting a commercial trellis from Bunnings. The unit will focus on practical design skills, sustainable practices, and evaluating the effectiveness of different materials and systems in enhancing plant growth. Students will present their designs and reflect on their choices to demonstrate their understanding of efficient gardening techniques.

YEAR 9

The Arts Electives

Visual Art

Looking Back

Students create a ceramic artwork and a series of experimental artworks based off a historical inquiry. Using personal and cultural contexts students explore elements of history as inspiration for their artworks.

Looking forward

Students create a series of experimental artworks and prints. Using personal and cultural contexts students explore elements of identity as inspiration for their artworks.

Music

Becoming a Song Maker: exploring stories and songs

In *Becoming a Song Maker*, students make and respond to music as they become aware of the musical skills that are integral to the successful application of composition techniques through various song writing styles and processes. They engage with a variety of music using digital and virtual platforms (music streaming and social media platforms, music and film recording software) and collaborate peer to peer with other students in the class.

Students experiment, identify and analyse compositional devices through song writing, techniques across a variety of song writing styles and processes to develop better awareness, communication, creative application and sharing of music ideas, emotions and experiences. Students learn how to be independent users of digital technologies (digital audio workstations) and investigate who they are as a musician/artist within their cultural context and of their emerging musical identity.

Blues Foundations: Exploring Tonality, Rhythm, and Composition

In this unit, students will complete a range of aural, theoretical, analytical and practical activities exploring blues tonality and scale structure. They will also complete a variety of rhythmic activities, developing an understanding of syncopation, ties, accents and rests. Students will also compose or improvise short melodic ideas over the 12-bar blues as part of practical lessons, and will be able to communicate melodic and rhythmic ideas, using traditional notation.

Drama

Melodrama

In this unit students **make** and **respond** to drama by exploring Melodrama and Realism with a focus on how each of the elements of drama are manipulated to create dramatic meaning. Students will also identify key elements/concepts around stock characters as well as play structure and the history and background of Realism.

Realism

In this unit students **make** and **respond** to drama by exploring Realism with a focus on how each of the elements of drama are manipulated to create dramatic meaning. Students will also identify key elements/concepts around actors craft as well as play structure.

YEAR 10

Curriculum Overview – Year 10

Welcome to Year 10 at St Patrick's College

In this section, you'll find essential information about the subjects and courses of study for Year 10. Our goal is to provide a rich and engaging educational experience that fosters both depth and breadth of knowledge. Across all learning areas we are committed to supporting your child's growth and development and at this stage of learning, students are able to make choices to ensure that their learning aligns closely with their knowledge and skills.

All subjects use the ACARA syllabi and Religious Education uses the syllabus from BCE.

In Year 10, students undertake both core and elective subjects.

Core Subjects

Core subjects for students in Years 9 are studied for the whole year and include:

- Religious Education
- English
    - English OR
    - English Extension
- Mathematics
    - Mathematics OR
    - Mathematics Extension
- Science
    - Science OR
    - Science Extension
- Health and Physical Education

We are introducing extension variations of English, Mathematics and Science for students who are looking to extend their learning and are seeking a pathway through Years 11 and 12 to university education. These classes will cover the Australian Curriculum in more depth, at a faster pace and will have assessments that are more challenging to prepare students for subjects such as Maths Methods, General Maths, Literature, Biology, Chemistry and Physics in Years 11 and 12. It is recommended that students selecting these subjects are achieving an A or B in Year 9 in the corresponding subject.

Students in core English, Mathematics and Science classes will also learn the Australian Curriculum however the learning will be more practical, paced to meet the learning needs of students in the class. Assessment will still meet the Achievement Standard in the Australian Curriculum.

YEAR 10

Elective Subjects

Elective subjects cover the breadth and depth of the Humanities, Languages, Arts and Technologies learning areas as well as offering a range of subjects that support the transition into senior schooling. Students select three electives for each semester and may choose additional Humanities subjects if they desire.

Humanities	Geography Economics and Business Civics and Citizenship
Languages	French
Technologies	Digital Technologies Design Technology – Food Design Technology – Food, Fibre and Production (Agriculture) Design Technology – Materials (Woodwork) Design Technology - Engineering
The Arts	Visual Art Drama Music
Health and Physical Education	PE Elective Fitness Elective Early Childhood Studies

YEAR 10

Religious Education

By the end of Year 10, students describe how the mystery of God can be named, encountered and better understood. They describe how humans express an understanding of God or the 'Other' as revealed in creation. They differentiate between the core beliefs and practices of the major world religions (Judaism, Christianity, Islam, Hinduism and Buddhism) and describe and identify how these reflect the human understanding of God or the 'Other'.

Students identify different representations of God from a range of sacred texts for a modern Australian context. They use evidence from Old Testament and New Testament texts to differentiate between representations of God by various human authors in different historical, social and cultural contexts and evaluate their relevance for a modern Australian context. They analyse perspectives in a range of Christian spiritual writings searching for the mystery of God in the midst of world events and the course of human history.

MYSTERY OF GOD

Old Testament texts portray God using a variety of different titles, images and attributes (e.g. Creator, Lord, protector). Different portrayals of God need to be understood in their historical and cultural setting. Intention of the human author is important in determining the nature of the truth revealed in the text.

An understanding of these Old Testament representations of God can help the reader appreciate their relevance & application for today.

RESPONDING TO THE SIGNS OF THE TIMES

Assisted by the Holy Spirit, the Church draws on the teaching of Jesus and its living tradition to respond to emerging moral questions about economic structures and development. Catholic social teaching proposes principles for reflection, provides criteria for judgment and gives guidelines for action.

The principles of Catholic social teaching, especially participation, economic justice, global solidarity and development, preferential option for the poor, stewardship, and subsidiarity, provide guidelines for just economic order and development.

Christians believe that human work shares in God's creative activity. Work enables each person to use their talents to serve the human community. Employment without discrimination and for a just wage is each person's moral right.

MAKING AMENDS, MOVING FORWARD

The religions of the world contribute valuable insights into the idea of God or the 'Other'. The core beliefs and practices of the major world religions (Christianity, Islam, Judaism, Hinduism and Buddhism) reflect this mystery of God/Other which is beyond human understanding.

A RELIGIOUS VOICE IN THE WORLD

The mystery of God is ultimately beyond human language, concepts and stories. God is neither male nor female, but is pure spirit transcending all creation. Human beings have an understanding of God through their experience of the created world.

YEAR 10

YEAR 10

English

Deception Exposed: Misrepresentation in Texts

Uncover the truth in "Deception Exposed", a unit that dives into the ways language can be used to deceive and manipulate audiences. Students will examine various forms of misrepresentation, such as propaganda, fake news, and deceptive advertising. This unit challenges students to critically evaluate the power of language and its potential for both harm and good. Through analysis and discussion, students will learn to identify misleading tactics and consider how to use language ethically and effectively.

Hidden Messages: The Giver

Journey into the dystopian world of Lois Lowry's *The Giver* in "Hidden Messages". Students will conduct a deep analysis of the novel's themes, characters, and narrative structure, uncovering the social and ethical issues it presents. Using critical thinking and literary analysis techniques, students will explore the implications of the novel's dystopian society for our own world. This unit encourages students to think deeply about the role of memory, individuality, and societal control in shaping human experience.

An Enduring Legacy: Romeo and Juliet

Explore the timeless tragedy of *Romeo and Juliet* as students delve into Shakespeare's exploration of love, fate, and societal expectations, analysing the play's complex characters and enduring themes. This unit aims to enhance students' analytical skills and foster a deep appreciation for one of English literature's greatest works. Through discussions, essays, and performances, students will connect with the text on multiple levels, understanding its relevance across different eras and cultures.

The Power of Perspective

Examine the multifaceted nature of war in "The Power of Perspective". This unit explores the art of storytelling within the context of conflict, using a variety of texts to illuminate the impact of war on individuals and societies. Students will engage with the nuances of war narratives, thinking critically, creatively, and empathetically as they develop their own stories. By analysing diverse perspectives and crafting their own narratives, students will gain a deeper understanding of the complexities of war and the human condition.

YEAR 10

English - Extension

The Power of Persuasion

In this unit, students delve into the art of persuasion, mastering the craft of influential communication. They will learn to construct compelling arguments, harness emotive appeal, and sway readers through sophisticated language and rhetoric. Through contentious debates, critical analysis, and persuasive writing exercises, students will develop the skills to effectively manipulate language, enhancing their ability to influence and convince. This unit challenges students to wield the English language as a powerful tool of persuasion, preparing them for advanced academic discourse and real-world applications.

Humanity's Dark Side: Lord of the Flies

Students embark on a comprehensive exploration of William Golding's allegorical masterpiece, *Lord of the Flies*. This unit cultivates advanced analytical skills, pushing students to evaluate complex literary devices, intricate narrative techniques, and profound thematic concepts. Designed for literature enthusiasts eager to unravel textual complexities, the course encourages deep engagement with the novel's portrayals of human nature, civilisation, and morality. Through rigorous analysis and interpretation, students will enhance their critical thinking and develop a nuanced understanding of literary craftsmanship.

Mistaken Identities: Twelfth Night

This unit immerses students in Shakespeare's comedic tour de force, *Twelfth Night*. Students will dissect the play's intricate themes, vibrant characters, historical context, and rich language to uncover its enduring relevance in contemporary society. Through critical discussions, analytical essays, and creative interpretations, students will move beyond surface-level understanding to engage with scholarly critiques and develop their own insightful responses. This unit challenges students to appreciate the timeless nature of Shakespeare's wit and wisdom while honing their analytical and interpretative skills.

Beyond the Boundaries

In this creative writing unit, students explore the complex narratives of war and conflict through the power of storytelling. Engaging in workshops, critical readings, multimedia viewings, and thought-provoking discussions, students will craft compelling narratives that capture the multifaceted human experience during times of crisis. This unit is tailored for students looking to push the boundaries of their creative writing, encouraging them to tackle challenging themes with sensitivity and depth. By the end of the unit, students will have developed a portfolio of work that demonstrates their ability to use creative writing as a means of exploring and understanding complex human experiences.

YEAR 10

Mathematics

Advanced Geometry and Trigonometry

Students will engage in a rigorous exploration of complex shapes and advanced problem-solving techniques. This unit focuses on solving surface area and volume problems for composite solids, enhancing spatial awareness and mathematical precision. Students will develop deductive reasoning skills through proofs and numerical exercises involving plane shapes. The curriculum includes an in-depth study of geometric principles, using triangle and angle properties to prove congruence and similarity. Additionally, students will apply trigonometry to calculate unknown angles in right-angled triangles, acquiring practical skills for real-world applications.

Financial Literacy and Algebraic Proficiency

This unit offers a comprehensive study of key mathematical concepts essential for financial literacy and algebraic proficiency. Students will explore the relationship between simple and compound interest, equipping them with practical knowledge for real-life financial decisions. The curriculum includes the expansion of binomial expressions and the factorisation of monic quadratic expressions, enhancing algebraic manipulation skills. Mastery of substitution to find unknown values in various formulas, along with performing the four operations with simple algebraic fractions, is emphasized.

Algebra and Geometry: Equations, Graphs, and Lines

In this comprehensive unit, students will tackle a variety of algebraic challenges, starting with solving linear equations and inequalities. They will explore the deep connections between algebraic and graphical representations of relations, enhancing their understanding of how equations translate into visual graphs. The unit also covers the relationships between parallel and perpendicular lines, providing essential geometric insights. Additionally, students will solve simple quadratic equations and pairs of simultaneous equations, developing critical problem-solving skills that form the cornerstone of advanced mathematical studies.

Data Analysis and Probability: Mastering Statistical Relationships and Predictions

In this dynamic unit, students delve into the world of data analysis and probability with a focus on practical and analytical skills. They will compare data sets by interpreting various data displays, gaining insights into the shape and distribution of information. Students will describe and analyze bivariate data, especially where time is the independent variable, and uncover statistical relationships between two continuous variables. Evaluating statistical reports and listing outcomes for multi-step chance experiments, students will assign probabilities and calculate quartiles and inter-quartile ranges. This unit equips students with essential skills for understanding and interpreting data, fostering a deeper grasp of statistical concepts and their real-world applications.

YEAR 10

Mathematics - Extension

Year 10 Extension Mathematics serves as a preparatory course for General Mathematics, Mathematical Methods, and Mathematics Specialist. The course is designed to emulate the pace and rigor of senior mathematics, incorporating advanced topics that provide foundational skills essential for success in Years 11 and 12. This unit aims to equip students with the necessary knowledge and experience to excel in their subsequent mathematical studies. In addition to the Year 10 Core Mathematics curriculum, students will engage with the following topics:

Mastering Shapes, Functions, and Equations

In this unit, students will systematically address a range of geometric and trigonometric concepts, preparing them for future mathematical studies. They will solve complex problems related to the surface area and volume of right pyramids, cones, spheres, and composite solids, enhancing their spatial reasoning abilities. The curriculum includes the establishment of sine, cosine, and area rules for any triangle, enabling students to effectively tackle related problems. Students will also utilize the unit circle to define and graph trigonometric functions, employing both manual methods and digital technologies. Additionally, they will solve basic trigonometric equations and apply Pythagoras' Theorem along with trigonometric principles to resolve three-dimensional problems in right-angled triangles.

Mastering Equations and Curves

In this unit, students will systematically explore both linear and non-linear relationships, thereby enhancing their algebraic and graphical proficiencies. They will engage with simple exponential equations and develop the ability to describe, interpret, and sketch parabolas, hyperbolas, circles, and exponential functions, including their transformations. Furthermore, students will apply their understanding of polynomials to sketch various curves and elucidate their features based on the given equations. The curriculum also encompasses the factorisation of monic and non-monic quadratic expressions, enabling students to solve a broad spectrum of quadratic equations derived from diverse contexts.

Mastery of Rational Numbers, Logarithms, and Polynomials

In this unit, students will enhance their understanding of number theory and algebraic techniques. They will rigorously define rational and irrational numbers, perform operations with surds and fractional indices, and thoroughly explore the properties of these unique number types. The curriculum includes a detailed introduction to logarithms, enabling students to establish and apply the laws of logarithms in various contexts. Furthermore, students will investigate the concept of polynomials, utilizing the factor and remainder theorems to solve complex problems.

Mastering Statistical and Geometric Concepts

In this unit, students will engage in the critical analysis of studies reported in digital media and other sources, focusing on their planning and implementation. The unit emphasizes data representation and interpretation, guiding students to calculate and interpret the mean and standard deviation of data sets to facilitate meaningful comparisons. Students will leverage information technologies to investigate bivariate numerical data sets, employing straight-line

models where appropriate to describe relationships amidst variation. Additionally, the curriculum includes proving and applying angle and chord properties of circles, providing a thorough understanding of these geometric principles. This unit aims to develop analytical and technological skills essential for advanced mathematical studies and practical applications.

Science

Biological Systems and Ecosystems

This unit explores the intricate workings of multicellular organisms and their environments. Students investigate how body systems coordinate to respond to external changes, examining the interdependence of respiratory, circulatory, digestive, nervous, and excretory systems. The unit then expands to ecosystems, studying the flow of energy and matter through food webs, and the complex interactions between organisms. Students analyse factors affecting population sizes and explore how ecosystems respond to events like bushfires and flooding.

Atomic Structure and Chemical Reactions

Students delve into the microscopic world of atoms, examining their structure and the phenomenon of natural radioactivity. They explore how atoms rearrange in chemical reactions, with a focus on conservation of mass. The unit covers important reactions including combustion and acid-base interactions, emphasizing energy transfer in both living and non-living systems. Students investigate exothermic and endothermic reactions, and compare processes like respiration and photosynthesis.

Earth's Dynamics: Plate Tectonics

This unit unravels the theory of plate tectonics and its role in shaping our planet. Students study the major tectonic plates, model sea-floor spreading, and relate plate movements to earthquakes and volcanic activity. They explore the transfer of heat energy within the Earth and its influence on plate movement. The unit also examines Australia's unique geological history in the context of plate tectonics.

Energy Transfer and Wave Theory

Students investigate energy transfer through various mediums using wave and particle models. They explore heat transfer via convection, conduction, and radiation, and examine factors affecting energy transfer in electric circuits. The unit covers the properties of waves, including sound and light, and their role in energy transfer. Students also consider practical applications, such as the use of electromagnetic radiation in communication technologies and medicine.

YEAR 10

Science - Extension

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Skills

Students will gain the required skills to succeed in a senior science (Biology, Chemistry, Physics, Psychology)

YEAR 10

Health and Physical Education (Core)

Navigating the Self: Personal Growth and Resilience

Embark on an empowering journey of self-discovery in this dynamic unit! Dive deep into the fascinating world of identity formation and emotional intelligence. You'll unlock the secrets to managing your emotions and adapting to life's ever-changing landscape. Through engaging activities and thought-provoking discussions, you'll develop a toolkit for personal growth that will serve you well beyond the classroom. Learn to embrace change, harness your emotions, and sculpt your identity with confidence. By the end of this unit, you'll be equipped to face life's challenges head-on, armed with resilience and a strong sense of self.

Safety Savvy: Managing Risks

Welcome to the cutting-edge world of risk management in the 21st century! In this eye-opening unit, you'll become a master of navigating both online and offline dangers. Discover how to protect your digital footprint, recognize potential threats, and make savvy decisions in the virtual and real worlds. Through interactive scenarios and real-life case studies, you'll develop a keen eye for identifying risks and learn strategies to keep yourself and others safe. From cybersecurity to personal safety, this unit will transform you into a risk management pro, ready to tackle the challenges of our interconnected world with confidence and skill.

For the Love of Physical Activity

Get ready to become a catalyst for change in your community's health and fitness landscape! This energizing unit combines the joy of movement with the power of social impact. You'll explore a diverse range of dance styles and fitness trends, experiencing firsthand the transformative effects of physical activity. But that's just the warm-up! The real challenge lies in designing and evaluating community-based fitness initiatives. You'll put on your wellness architect hat, proposing innovative interventions to boost the health and well-being of those around you. By the end of this unit, you'll not only have enhanced your own fitness but also gained the skills to inspire and improve the wellness of your entire community.

YEAR 10

Cert I in Workplace Readiness

St Patrick's College Gympie
RTO number 45734
BSB10120 Certificate I in Workplace Skills

NATIONALLY RECOGNISED TRAINING

Qualification Description
This qualification reflects the role of individuals who have not yet entered the workforce, and are developing the necessary skills in preparation for work. They may undertake a variety of simple tasks under close supervision. This qualification provides a range of introductory skills and knowledge to provide individuals with an understanding of the business environment. It provides students with employability skills such as communication, teamwork, problem solving, planning/organising, initiative and enterprise.

Duration and Location
This is a 6 month course delivered in Year 10 on site at St Patrick's College as part of a Careers program.

Course Units
BSBOPS101 Use Business resources
BSBPEF101 Plan and prepare for work readiness
BSBTEC101 Operate digital devices
BSBOPS201 Work effectively in business environments
FSKWTG001 Complete personal details on extremely simple and short workplace forms
FSKDIG001 Use digital technology for short and basic workplace tasks

Delivery modes
A range of delivery modes will be used during the teaching and learning of this qualification. These include: face-to-face instruction; guided learning; online training.

Fees
There are no additional costs involved in this course.

Assessment
Assessment for this course includes but is not limited to completing practical tasks, Hands-on activities, group work, responding to case studies, short response tasks and project/folio work

Pathways
Workplace Skills provides foundation knowledge and skills required for the workplace and senior subjects such as the Certificate III in Business. See other qualifications at training.gov.au.

RTO Obligation
The RTO guarantees that the student will be provided with every opportunity to complete the qualification. We do not guarantee employment upon completion of this qualification. Students who are deemed competent in all 6 units of competency will be awarded a Qualification and a record of results by St Patrick's College. Students who achieve at least one unit of competency (but not the full qualification) will receive a Statement of Attainment.

YEAR 10

Humanities Electives

History

World War II

Delving into the tumultuous era of World War II, this unit examines its profound impact on Australian society. From the outbreak of hostilities to the war's conclusion, students will explore Australia's pivotal role in key battles such as the fall of Singapore and Kokoda. The course highlights major turning points, including the Holocaust and the use of the atomic bomb. On the home front, changing roles of women and First Nations Australians come under scrutiny. To conclude, students will analyse post-war impacts on Australia's development and engage with ongoing debates surrounding the war's commemoration.

Building Modern Australia

In the wake of World War II, Australia underwent significant social and political transformations. This unit traces the emergence of civil rights campaigns for First Nations Australians, migrants, and women. Through an exploration of key events and influential figures, students will gain insight into the methods and impacts of these movements. Changing perspectives on migration since 1945 form another crucial aspect of study. By examining ongoing efforts for civil rights and freedoms, the course encourages students to reflect on the evolution of contemporary Australian society.

Geography

Environmental Change and Management

At the intersection of human activity and environmental sustainability lies a complex web of challenges. This unit invites students to investigate human-induced changes threatening environmental balance. Various environmental worldviews come under examination, with special attention given to First Nations Australians' custodial practices. Through diverse case studies spanning local, national, and global scales, students will analyse the causes and effects of environmental change. Ultimately, the course aims to evaluate strategies for sustainable management in an ever-changing world.

Geographies of Human Wellbeing

Spatial variations in human wellbeing form the core of this comprehensive unit. Students will master methods for measuring wellbeing and development, applying these skills to understand global disparities. Within Australia, the focus shifts to regional differences, including the unique experiences of First Nations Australians. Comparative studies with countries like India and other nations in the Asia-Pacific region broaden the international perspective. To round out the unit, an examination of responses by various organisations to improve wellbeing in Australia and the Pacific region provides a practical context to theoretical concepts.

Business

Measuring Australia's Economic Performance & Australia's Living Standards

Economic indicators serve as vital signs for national performance, and this unit equips students to interpret them effectively. By exploring factors affecting Australia's living standards, learners will gain insight into the government's role in economic management. Current economic data becomes a tool for understanding Australia's position in the global landscape. Throughout the course, students will develop economic literacy skills, preparing them to navigate potential challenges to future prosperity.

The Business Environment

Adaptability is key in the ever-changing business world, and this unit showcases how enterprises respond to economic shifts. Students will investigate factors influencing economic decision-making and explore productivity improvement strategies. Real-world case studies of successful innovations bring theoretical concepts to life. Global economic trends and their impact on Australian businesses round out this dynamic exploration of the modern business environment.

Civics and Citizenship

Democracy in Focus: Governance in Australia and Around the World

Critical examination of Australia's democratic system lies at the heart of this thought-provoking unit. By comparing key features of Australia's governance with another system in the Asia-Pacific region, students gain a broader perspective on democratic values. The concept of a cohesive society comes under scrutiny through analysis of current events. Potential threats to Australian democracy and the safeguards protecting key rights and shared values conclude this fascinating study of governmental structures.

Australia on the World Stage: Law, Policy, and Impact

On the global stage, Australia plays vital roles and this unit explores these international responsibilities. Students will examine how international legal obligations shape domestic law and government policies, with particular focus on their impact on First Nations Australians. The High Court of Australia's crucial role in constitutional interpretation and protecting the rights of citizens rounds out the course. Through this study, students will gain a deeper understanding of Australia's place in the international legal landscape.

YEAR 10

Health Electives

HPEM (Introduction to Fitness)

Teamwork, Tactics, Triumph: Coaching for Success!

Step into the exciting world of sports coaching and risk management! This unit will transform you into a savvy coach who can lead teams to victory while prioritizing safety and ethics. You'll master the art of refining movement skills, develop cutting-edge coaching strategies, and learn to make split-second decisions in challenging situations. Through hands-on experiences and real-world scenarios, you'll hone your ability to spot potential risks and propose innovative solutions. By the end of this unit, you'll be equipped with the skills to inspire athletes, manage teams effectively, and create a safe, ethical sporting environment.

Sweat, Strive, and Thrive: Your Fitness Journey Begins!

Embark on an exhilarating fitness adventure that goes beyond personal gains to impact your entire community! This comprehensive unit blends intense training techniques with crucial risk management skills and community outreach. You'll design cutting-edge fitness programs, learn to identify and mitigate health and safety risks, and develop community-based interventions to boost overall wellness. Get ready to flex your leadership muscles as you apply and evaluate various approaches across diverse movement contexts. By the end of this journey, you'll not only transform your own fitness but also gain the expertise to inspire and improve the health of those around you.

HPEC (Introduction to Senior Physical Education)

Move Like a Pro: Mastering Motor Learning

Unlock the secrets of human movement in this fascinating exploration of motor learning! Dive deep into the science behind skill acquisition and refinement, discovering how top athletes perfect their craft. You'll analyze specialized movement sequences, breaking down complex skills into their fundamental components. Through a combination of theoretical study and practical application, you'll gain insights into how the body learns and adapts to new movements. Whether you're an aspiring athlete, coach, or simply curious about human performance, this unit will give you a whole new perspective on physical activity and skill development. Get ready to move, think, and perform like a pro!

YEAR 10

Early Childhood Studies

Playful Explorations: Unlocking Early Childhood Learning Adventures

This captivating unit invites students to explore the vibrant world of early childhood learning. Students will discover how to foster development in both indoor and outdoor settings, crafting environments that spark curiosity and nurture creativity. The course delves into core theories of child development, emphasizing the power of play-based learning in supporting cognitive, social, and emotional growth. Students will learn to design engaging spaces, plan age-appropriate activities, and integrate nature into the learning experience. Safety considerations and culturally inclusive practices are woven throughout the curriculum. Through a mix of theory and hands-on exercises, students will develop practical skills in creating stimulating learning environments and activities. This unit challenges creative thinking and prepares students for further studies or future careers in early childhood education, equipping them with a solid foundation in nurturing young minds.

YEAR 10

The Arts

Music

Note: In Year 10 in the Arts we are offering two separate semester long subjects . If insufficient students enrol, they will be compressed into a one semester subject.

Students will embark on an exciting journey to investigate the rich and evolving history of music, examining how culture influences a diverse array of musical styles and genres. Through engaging activities, they will enhance their aural perception, deepen their understanding of music notation and rhythm, and refine their composition and performance skills. Students will have ample opportunities to apply these skills in various college events, such as the Spring Showcase, as well as at public events in the wider community. While there may be occasions for performances outside of school hours, students who are unable to participate will not face any disadvantages.

Encouraged to explore and cultivate their own unique style, students will also be exposed to a range of popular musical styles throughout history. They will collaborate as part of a group and have the chance to shine as individual performers. Performances may include any melodic or harmonic instrument (including voice), drum kit, percussion, or emerging performance technologies. While music lessons outside of school can provide an advantage, they are not a requirement.

Assessment in Units 1 and 2 will encompass practical, compositional, and theoretical components. Assignments will be graded individually, even within group contexts.

Music 1 – Music through the Ages

In Unit 1, students will delve into the concept of 'genre' and expand their understanding of musical styles across various time periods and cultures. They will be challenged to manipulate musical elements to transform the genre of a song, performing it in a fresh and innovative style. This presents a wonderful opportunity for students to showcase their distinctive musical expression.

Music 2 – Song Writers Academy

Unit 2 will focus on composition, where students will apply their knowledge of musical elements and concepts to create new works. They will focus on resolving musical ideas to effectively convey meaning and emotion to an audience. Students will also utilise Digital Audio Workstations (DAWs) as a tool for composing, allowing them to layer tracks, record, and mix original audio.

YEAR 10

Drama

Note: In Year 10 in the Arts we are offering two separate semester long subjects . If insufficient students enrol, they will be compressed into a one semester subject.

Drama 1 - Actorscraft

This term students will focus on honing their skills of performance to create dramatic meaning. The style of theatre to be explored is Realism, and this will also lead to an exploration of actorscraft – looking at practitioners such as Stanislavski. In this unit students will read Arthur Miller's play The Crucible and explore the thematic topics of history, community and truth. Written during the McCarthyism scare of the 1950's the play underscores the importance of remembering the events of the collective past.

Drama 2 - Collage Drama and Playbuilding

In this unit students make and respond to drama by exploring Collage with a focus on how each of the elements of drama are manipulated to create dramatic meaning. Students will also identify key elements/concepts around style and genre as well as play structure.

Visual Art

Note: In Year 10 in the Arts we are offering two separate semester long subjects . If insufficient students enrol, they will be compressed into a one semester subject.

Visual Art 1 - Breaking the Rules

Students create an experimental folio of artworks inspired by artists who push the boundaries.

Visual Art 2 - Challenging Perceptions

Working with a client, students plan and create a series of innovative artworks for display in the College.

YEAR 10

Technologies

Design Technology - Food

Rustic Brunch

The local café is planning on introducing brunch to its menu in 2024. The owner has asked you as "brunch connoisseurs" to design and produce an item that could be showcased in their new menu. You will need to identify the contemporary trends within café's and serve your brunch in a rustic style. This will include garnishes, sauces, plating considerations and aesthetics.

Themed Grazing Board

Your Team is to investigate, design and produce a Grazing Board for an allocated celebration (selected randomly by your teacher) to serve 20 adults (St Pat's staff members).

Your board must not go over a budget of $50, it must clearly represent the theme of your celebration, showcase a food design hack and 3 cooked elements as part of its presentation.

Your board will be presented to a group of staff who will be asked to guess what celebration your board is representing based on your design.

Design Technology - Food, Fibre & Production

Soil-Free Solutions: Exploring Hydroponics in Modern Agriculture

In this unit, students will delve into hydroponics as an innovative method for growing plants without soil. They will explore the principles of hydroponic systems, including nutrient delivery, plant growth requirements, and system design. Students will engage in hands-on activities to build and manage their own hydroponic setups, analyse the benefits and challenges of hydroponic farming, and assess its impact on sustainable food production. The unit aims to enhance their understanding of modern agricultural techniques and their application in food technology.

Agribusiness Essentials: Managing and Innovating in the Agricultural Industry

In this unit, students will explore the dynamic world of agribusiness. They will examine the key components of the agricultural industry, including production, marketing, and supply chain management. Through case studies and project-based learning, students will analyse how businesses manage resources, develop strategies, and adapt to market demands. They will design and implement their own agribusinesses and gain insight into food production.

YEAR 10

Design Technology - Materials

Precision Fishing: Designing and Building a Custom Fishing Rod

In this unit, students will dive into the process of designing and constructing a custom fishing rod. They will start by evaluating existing rod designs to understand various components and construction techniques. Students will then select and use appropriate materials and rod-building components, focusing on both functionality and aesthetics. Emphasis will be placed on applying woodworking and crafting skills with precision and safety. Through hands-on workshops, students will assemble and fine-tune their fishing rods to meet specific performance standards. By the end of the unit, students will have produced a high-quality, custom-designed fishing rod tailored to their intended use, demonstrating their ability to integrate design principles with practical craftsmanship.

Design Technology - Engineering

Industry-Standard Hand Skills

In this unit, students will gain practical experience with essential hand skills used in various industries. They will complete two primary projects: a yabby pump and a sliding bevel. These projects are designed to teach students precision, craftsmanship, and familiarity with industry-standard tools and techniques.

Design Technology - Graphics

Innovative Solutions: Designing Multi-Functional Furniture for Emergency Situations

In this unit, students will immerse themselves in the design process, exploring key stages from concept to creation. They will gain a comprehensive understanding of various design strategies and techniques used in developing new products. Students will design a new piece of furniture that converts into an emergency shelter. Students will come up with their own design solution by closely following the steps involved in the design process.

Designing for Success: Using CAD and Mind Mapping to Meet Client Needs

In this unit students will be sketching and using CAD programs to create design solutions for a given task. Students will learn how to use mind maps to aid in the creation of new concepts. Students will also learn how to identify clients wants and need and tailor their specific design solution to their specific client.

YEAR 10

Science Elective

Psychology

Students begin by learning about the origins of Psychology as a science, and the many ways in which Psychological research informs real-world contexts such as work and leisure.

In the first term of this subject, students do an in-depth study on theories of well-being and the psychological and physical impact of stress in human life. Students learn how research in Psychology can inform our understandings of stress and anxiety, and how this knowledge can be applied to manage stress in our daily lives.

Other potential topics that are explored in this course may include Psychology in sport, the impact and treatment of psychological trauma, emotional intelligence and theories of personality.

Throughout this course students are introduced to statistical analysis and the conventions of scientific investigation. Furthermore, the research and writing involved in this course is valuable preparation for the internal assessment tasks that are undertaken in the Senior Sciences.