

Year 12 2027 Subject Guide



**BRIGHTON
GRAMMAR**



Year 12 2027 Subject Guide

This document details the subject options for Year 12 (2027) students. It is intended as a guide for families to help with submitting subject preferences. This guide should be used in conjunction with family discussion as well as discussions with teachers and other students as appropriate.

This guide includes several sections:

- Overview of Subject Offerings and Submission Process
- VCE Overview
- Subject Descriptions

Overview of Subject Offerings and Submission Process

In Year 12, students typically continue to study five of their Units 1 and 2 subjects. Similar requirements exist for completing an English subject and a Mathematics subject.

A link and instructions will be sent via email to parents with information on how to submit subject preferences. These are completed online. Students will also have an opportunity to meet with their Head of House during the process.

VCE Overview

The Victorian Certificate of Education (VCE) is the certificate that the majority of students in Victoria receive on satisfactory completion of their secondary education. The VCE provides diverse pathways to further study or training at university or TAFE and to employment.

Students at Brighton Grammar School complete their VCE studies primarily over their last two years of secondary schooling. VCE studies are broken into units which are completed over one semester each. For example, English Units 1 and 2 are completed in Year 11 and English Units 3 and 4 are completed in Year 12. Students typically complete:

- Year 11: Six Units 1 and 2 subjects
- Year 12: Five Units 3 and 4 subjects (undertaken as a sequence together)

As part of the Units 3 and 4 subjects completed, students choose:

- at least one English Unit 3 and 4 subject (English, English as an Additional Language, or Literature)
- at least one Mathematics Unit 3 and 4 subject (General Mathematics, Mathematical Methods, or Specialist Mathematics).

Students wishing to apply for exemption from the typical VCE structure delivered at BGS should first discuss this with their Head of House.

For more detail about the structure and procedures involved with the VCE, see the VCE Handbook. It is possible to take a Vocational Education and Training (VET) program as part of the VCE. More information about VET subjects can be found here:

<https://studentcareers.brightongrammar.vic.edu.au/?page=vocational-education-and-training>



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Humanities

Accounting Units 3&4

Each unit is completed over a semester.

Overview

This subject explores the financial recording, reporting, analysis and decision-making processes of a sole proprietor small business. Students study both theoretical and practical aspects of accounting. They collect, record, report and analyse financial data, and report, classify, verify and interpret accounting information, using both manual methods and information and communications technology (ICT).

Prerequisites

A student must have done either of the following to study Accounting Units 3 & 4:

- completed Accounting Units 1 & 2; or
- achieved a 75% average in Mathematical Methods Units 1 & 2.

Skills to be developed

- Collecting and recording financial data
- Communicating financial information via accounting reports to internal and external stakeholders
- Analysing and interpreting the financial information and advising stakeholders within the business on improving business performance
- The use of ICT in Accounting

Assessment tasks

- Assignments/reports
- Written tests
- ICT-based tasks
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Auditor
- Financial Accountant
- Financial Planner
- Forensic/Investigative Accounting
- Investment Analyst
- Management Accountant
- Mortgage Broker
- Project Manager
- Stockbroker
- Taxation Accountant
- Treasurer



Year 12 2027 Subject Guide

Mathematics

(Algorithmics (HESS) Units 3 & 4)

Each unit is completed over a semester.

This subject is **not** being offered in 2027.
It is planned to be offered in 2028.

Overview

This subject is most suitable for students who have had some experience or interest with coding or computer programming.

Algorithmics Units 3 & 4 provides a structured framework for solving real-world problems with computational methods that have been the driver of innovation across many fields of human endeavour. Algorithmics is fundamental to computer science and software engineering and is essential to understanding the technical underpinnings of the information society. Beyond its use in computing, algorithmics provides a general discipline of rational thought.

The Algorithmics course focuses on how algorithms are used for solving complex problems, and on the performance, scope and limits of algorithms.

Prerequisites

Must be taken with, or following,
Mathematical Methods Units 1 and 2

Skills to be developed

- Understanding the mathematical foundations of computer science and software engineering
- Designing algorithms to solve practical information problems, using suitable abstract data types and algorithmic design patterns
- Investigating the efficiency and correctness of algorithms through formal analysis and empirically through implementation as computer programs
- Reasoning about the physical, mathematical and philosophical limits of computability and artificial intelligence

Assessment tasks

- Computer programs
- Tests
- SACs
- Examinations

Possible career applications

- Artificial Intelligence Consultant
- Computer Scientist
- Software Engineer
- Data Scientist
- Economist
- Engineer
- Mathematician/Statistician
- Quantitative Analyst
- Scientist



Year 12 2027 Subject Guide

Science

Biology Units 3&4

Each unit is completed over a semester.

Overview

Students focus on the relationships between DNA and proteins, and the key biotechnologies that allow for genetic engineering of organisms to take place, as well as the bioethical implications of such actions.

Students learn about and complete practical investigations on the key biochemical processes that occur within organisms that are necessary for survival, and how these processes can be manipulated to solve problems that humans face. The immune system is explored in detail from the nature of disease to the complex processes required within the body to identify and respond to infection, as well as how this knowledge is being harnessed by researchers to treat diseases. How disease is transmitted and managed in populations is also explored.

Students will also learn about the theory of evolution, including how populations change over time, the existing evidence that supports the theory of evolution, and how humans have evolved over time.

Prerequisites

No prerequisites

Skills to be developed

- Scientific writing
- Developing research questions
- Planning and conducting investigations
- Collecting data
- Analysing data and relating this to studied theories
- Drawing evidence-based conclusions
- Applying biological knowledge to unfamiliar and complex biological systems

Assessment tasks

- SACs including practical reports, extended investigation, and data analysis
- Quizzes
- Evaluation of bioethical case studies
- Examination

Possible career applications

- Biochemist
- Biotechnologist
- Ecologist
- Geneticist
- Immunologist
- Marine Biologist, Microbiologist, Molecular Biologist
- Doctor (medical or veterinary)
- Physiotherapist
- Sports Scientist
- Virologist
- Zoologist



Year 12 2027 Subject Guide

Humanities

Business Management Units 3&4

Each unit is completed over a semester.

Overview

In these units students explore the key processes and issues concerned with managing a business efficiently and effectively to achieve objectives. They consider corporate culture, management styles, management skills and the relationship between each of these. Students consider the importance of reviewing key performance indicators to determine performance and strategies to position a business for the future. Students study a theoretical model to undertake change and consider a variety of strategies to manage change in the most efficient and effective way to improve business performance. Students evaluate business practice against theory using a contemporary case study.

Prerequisites

No prerequisites

Skills to be developed

- Define, describe and apply relevant business management concepts and terms
- Interpret, discuss and evaluate business information and ideas
- Apply business management knowledge to practical and/or simulated business situations
- Evaluate management strategies, styles, and skills and their appropriateness for a range of business situations
- Examine and apply the key principles of the theories of motivation
- Propose and justify strategy selection

Assessment tasks

- Area of study tests
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Advertising Executive
- Brand Manager
- Business Systems Analyst
- Finance Manager
- Human Resource Manager
- Industrial Relations Officer
- Logistics and Supply Chain Manager
- Marketing Manager
- Public Relations Officer
- Risk and Compliance Officer



Year 12 2027 Subject Guide

Science

Chemistry Units 3&4

Each unit is completed over a semester.

Overview

In Unit 3, students explore the use of fuels and the links with thermochemistry including calculations of heats of combustion. They also explore the uses of redox cells, collision theory and equilibrium concepts.

In Unit 4, students revisit organic molecules and expand their understanding of reactions these molecules can undergo and methods for analysing them. This includes volumetric analysis, chromatography and some spectroscopic techniques. The final part of the course focuses on the chemistry of medicines including the details of biomolecules; this is primarily an application of concepts learnt through previous work.

Prerequisites

Completion of Chemistry Units 1 & 2

Skills to be developed

- Using scientific language in written explanations
- Analysing experimental set-ups to make improvements in the quality of data obtained
- Designing and conducting experiments
- Linking written language with mathematical and diagraphical representations
- Creating logical sequences of calculations or explanations

Assessment tasks

- Small practical reports
- A scientific poster
- Tests
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Chemical Engineer
- Dietitian
- Food Technologist
- Materials Engineer
- Medical Practitioner
- Medical Scientist
- Nurse
- Pharmacist/Pharmaceutical Scientist
- Physiotherapist
- Veterinarian



Year 12 2027 Subject Guide

Languages

Chinese First Language Units 3&4

Each unit is completed over a semester.

Overview

The study of Chinese First Language Units 3 & 4 contributes to the overall education of students, most particularly in the area of communication but also to cross-cultural understanding, cognitive development, literacy and general knowledge. It provides access to the cultures of communities which use the language, and promotes understanding of different attitudes and values within the wider Australian community and beyond.

Prerequisites

Completion of Chinese First Language Units 1 & 2

Skills to be developed

- Ability to use Chinese to communicate with others in interpersonal, interpretive and presentational contexts
- Understanding and appreciation of their own culture and other cultures
- Understanding of language as a system
- Potential to apply Chinese to work, further study, training or leisure

Assessment tasks

- Oral presentation, conversations and discussions
- Listening and responding
- Reading and responding
- Text analysis in Chinese
- Written responses in Chinese
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

- International Business Manager
- Investment Analyst
- International Finance
- International Relations/Diplomacy
- Language Teacher
- Lawyer (International law)
- Linguist
- Translating and interpreting
- Travel Consultant



Year 12 2027 Subject Guide

Languages

Chinese Second Language Units 3 & 4

Each unit is completed over a semester.

Overview

This subject focuses on student participation in interpersonal communication, interpreting the language of other speakers, and presenting information and ideas in Chinese on a range of themes and topics. Students develop and extend skills in listening, speaking, reading, writing and viewing in Chinese in a range of contexts and develop cultural understanding in interpreting and creating language.

Students develop their understanding of the relationships between language and culture in new contexts and consider how these relationships shape communities. Throughout the study, students are given opportunities to make connections and comparisons based on personal reflections about the role of language and culture in communication and in personal identity.

Prerequisites

Completion of Chinese Second Language Units 1 & 2

Skills to be developed

- Communicate with others in Chinese in interpersonal, interpretive and presentational contexts
- Compare cultures and languages and enhance intercultural awareness
- Make connections between different languages, knowledge and ways of thinking
- Applying language learning to social and leisure activities, and the workforce

Assessment tasks

- Oral presentation, conversations and discussions
- Listening and responding
- Reading and responding
- Text analysis in Chinese
- Written responses in Chinese
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

- International Business Manager
- International Finance
- International Relations/Diplomacy
- Investment Analyst
- Language Teacher
- Lawyer (International law)
- Linguist
- Translating and interpreting
- Travel Consultant



Year 12 2027 Subject Guide

Languages

Chinese Second Language Advanced Units 3 & 4

Each unit is completed over a semester.

Overview

Chinese Second Language Advanced Units 3 & 4 contributes to students' personal development in a range of areas including communication skills, intercultural understanding, cognitive development, literacy and general knowledge. Learning and using an additional language encourages students to examine the influences on their perspectives and society and to consider issues important for effective personal, social and international communication. It enables students to examine the nature of language, including their own, and the role of culture in language, communication and identity. By understanding the process of language learning, students can apply skills and knowledge to other contexts and languages. Learning a language engages analytical and reflective capabilities and enhances critical and creative thinking.

Prerequisites

Completion of Chinese Second Language Advanced Units 1 & 2

Skills to be developed

- Communicate with others in Chinese in interpersonal, interpretive and presentational contexts
- Learn about language as a system and themselves as language learners
- Make connections between different languages, knowledge and ways of thinking
- Applying language learning to social and leisure activities, and the workforce

Assessment tasks

- Oral presentation, conversations and discussions
- Listening and responding
- Reading and responding
- Text analysis in Chinese
- Written responses in Chinese
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

- International Business Manager
- International Finance
- International Relations/Diplomacy
- Investment Analyst
- Language Teacher
- Lawyer (International law)
- Linguist
- Translating and interpreting
- Travel Consultant



Year 12 2027 Subject Guide

Humanities

Classical Studies Units 3 & 4

Each unit is completed over a semester.

This subject **is** being offered in 2027.
It is not planned to be offered in 2028.
It is planned to be offered again in 2029.

Overview

During Units 3 and 4, students engage with the intellectual and cultural material of ancient Greece and ancient Rome. Working with translations rather than the original ancient Greek or Latin, students examine classical works that continue to have an enduring influence on Western civilisation. Areas of study include the following: epic poetry, theatrical drama, classical or imperial architecture and sensational sculpture.

In Unit 3 (Classical Expressions), students explore the epic tradition and material culture of two works from the Greek or Roman worlds. Areas of Study explore the key classical ideas and techniques in, and their relationship to, its socio-historical context.

In Unit 4 (Classical Perspectives), students engage with the intellectual life of the classical world through a thematic cultural study of an overarching concern of classical culture and through analysis, evaluation and comparison of a range of different works.

Prerequisites

No prerequisites

Skills to be developed

- Evaluation and comparison skills
- Persuasive and rhetorical skills
- Research and communication skills
- Written expression
- Textual and critical analysis
- Construction of arguments

Assessment tasks

- Written analysis of extract/s or image/s of the selected classical work
- Short answer and structured questions
- Oral presentation
- Extended response
- Essay
- Research project
- School Assessed Coursework (SACs)
- End of year examination

Possible career applications

- International relations
- Lawyer
- Journalist
- Consultant
- Diplomat
- Political Scientist
- Education
- Research Analyst
- Publisher



Year 12 2027 Subject Guide

Creative and Performing Arts

Creative Practice (Art) Units 3 & 4

Each unit is completed over a semester.

Overview

In Unit 3, students are actively engaged in artmaking using specific materials, techniques and processes. They explore contexts, subject matter and ideas to develop artworks in creative ways. They also investigate how artists use visual language to represent ideas and meaning in artworks.

In Unit 4, students make connections to the artworks they have made in Unit 3, consolidating and extending their ideas and artmaking to further refine and resolve artworks. Students organise the presentation of their finished artworks and make decisions about how they are displayed and exhibited.

Students will also visit exhibitions in galleries, museums and/or site-specific spaces during their year of study.

Prerequisites

No prerequisites

Skills to be developed

- Developing skills with a range of media
- Communicating ideas through visual media
- Conducting investigations with a range of media and art styles
- Analysing artworks using the art elements and principles
- Developing visual analysis skills using visual thinking strategies
- Producing a visual diary and final resolved artworks
- Researching subject matter appropriate to individual ideas in a visual diary

Assessment tasks

- Visual diary
- Finished artworks
- Developmental works
- Research essays
- Self-directed exploration
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Advertising - Creative Director
- Architect
- Photographer
- Artist
- Curator
- Animator or Illustrator
- Games or Graphic Designer
- Performance Designer (set/special effects)
- Spatial Designer (interior/exterior/virtual)
- User Experience (UX) Designer



Year 12 2027 Subject Guide

Creative and Performing Arts

Drama Units 3 & 4

Each unit is completed over a semester.

Overview

This subject focuses on the creation and performance of characters and stories that communicate ideas and meaning. Students learn to develop their public speaking skills, the ability to work in teams, how to express themselves creatively as well as boost their overall self-confidence. Students use creative processes, stimulus material and play-making techniques to develop and present devised ensemble and solo work. Students learn about and draw on a range of performance styles and contemporary drama practices and manipulate conventions, dramatic elements and production areas. They use performance and expressive skills to explore and develop role and character. Students also analyse the development of their own work and performances by other drama practitioners.

Prerequisites

No prerequisites

Skills to be developed

- Develop an understanding of drama as a way of communicating stories, ideas and meaning
- Examine contemporary drama practice, the work of selected practitioners and theorists and associated performance styles
- Devise, perform and evaluate solo and ensemble drama work
- Manipulate dramatic elements and production areas in devising and performing drama
- Develop and refine expressive and performance skills
- Develop skills as creative and critical thinkers

Assessment tasks

- Performance analyses
- Ensemble performances
- Solo performance examination
- Examinations

Possible career applications

- Acting agent
- Actor: stage and screen
- Advertising agent
- Costume or set design
- Director
- Lighting or sound technician
- Media presenter
- Public relations officer
- Screenwriter/Scriptwriter
- Theatre reviewer



Year 12 2027 Subject Guide

Humanities

Economics Units 3 & 4

Each unit is completed over a semester.

Overview

In Unit 3, students develop an understanding of the macroeconomy. They investigate the factors that influence the level of aggregate demand and aggregate supply in the economy. Students use models and theories to explain how changes in these variables might influence the achievement of the Australian Government's domestic macroeconomic goals and the effect on living standards is explored.

In Unit 4, students develop an understanding of how the Australian Government can alter the composition and level of government outlays and receipts, to directly and indirectly influence the level of aggregate demand and the achievement of domestic macroeconomic goals. Additionally, they explore how monetary policy is used in Australia to influence economic decisions made by households and businesses.

Prerequisites

No prerequisites but strongly recommend having completed Units 1 & 2 Economics.

Skills to be developed

- Define key economic concepts and terms and use them appropriately
- Explain key international economic relationships and how they may affect living standards
- Explain trends, patterns, similarities and differences in economic data and other information
- Calculate relevant economic indicators using real or hypothetical data
- Access, interpret and draw conclusions from, information gathered from a range of sources

Assessment tasks

- Area of study tests
- Quizzes
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Auditor
- Commodities Trader
- Company Secretary
- Data Scientist
- Economist
- Financial Planner
- Importer/Exporter
- Investment Analyst
- Market Researcher
- Policy Development



Year 12 2027 Subject Guide

English

English Units 3&4

Each unit is completed over a semester.

Overview

In Unit 3, students develop their ability to analyse ideas, concerns and values presented in a text, informed by the vocabulary, text structures and language features and how they make meaning.

Students also develop their writing skills by producing their own texts, designed to respond to a specific context and audience to achieve a stated purpose; and develop their ability to explain decisions made through writing processes.

In Unit 4, students further develop their ability to critically examine texts, analysing explicit and implicit ideas, concerns and values presented therein, informed by vocabulary, text structures and language features and how they make meaning.

Students also analyse arguments and the use of persuasive language and strategies in written, visual, audio and/or audio-visual texts. They create an oral presentation intended to position audiences about an issue currently debated in the media.

Prerequisites

No prerequisites

Skills to be developed

- Develop an understanding of the world of the text
- Analyse the ways authors construct meaning
- Understand how meaning is influenced by the contexts in which a text is created and read
- Analyse ideas, issues, and themes in texts
- Use the conventions of discussion
- Analyse the literary features used to construct voice and style
- Analyse the way arguments are constructed to be persuasive
- Present to an audience using oral conventions
- Plan, draft, and edit written pieces using Australian Standard English

Assessment tasks

- Creative responses to text
- Analytical responses to text
- Oral presentations
- Analysis of argument and persuasive language
- School Assessed Coursework (SACs)
- Examination



Year 12 2027 Subject Guide

English

English as an Additional Language (EAL)

Units 3 & 4

Each unit is completed over a semester.

Overview

In Unit 3, students develop their ability to analyse ideas, concerns and values presented in a text, informed by the vocabulary, text structures and language features and how they make meaning.

Students also develop their writing skills by producing their own texts, designed to respond to a specific context and audience to achieve a stated purpose, and develop their ability to explain their decisions made through writing processes.

In Unit 4, students further develop their ability to critically examine texts, analysing explicit and implicit ideas, concerns and values presented therein, informed by vocabulary, text structures and language features and how they make meaning.

Students also analyse arguments and the use of persuasive language and strategies in written, visual, audio and/or audio-visual texts. They create an oral presentation intended to position audiences about an issue currently debated in the media.

Prerequisites

No prerequisites

Skills to be developed

- Exploring and analysing: the dynamics of a text including characters' motivations, the tensions in relationships, the function of settings; the ideas, concerns and conflicts in a text; the historical context, and the social and cultural values in a text
- Reading and exploring mentor texts to understand the mechanics of effective and cohesive writing
- Experimenting with vocabulary, text structures and language features for effective and cohesive writing
- Creating texts with a stated purpose (to express, to reflect, to explain or to argue)
- Using contention(s) and supporting arguments including: sequence and structure, supporting evidence, language, techniques and strategies.

Assessment tasks

- Creative response
- Analytical response
- Persuasive speech
- Listening test
- Short answer responses
- School Assessed Coursework (SACs)
- Examination



Year 12 2027 Subject Guide

Languages

French Units 3&4

Each unit is completed over a semester.

Overview

This subject focuses on student participation in interpersonal communication, interpreting the language of other speakers and presenting information and ideas in French on a range of themes and topics. Students develop and extend skills in listening, speaking, reading, writing and viewing in a range of contexts. They develop cultural understanding in interpreting and creating language. Students build their understanding of the relationships between language and culture in new contexts. They consider how these relationships shape communities.

In Units 3 & 4, students investigate the way French speakers interpret and express ideas and develop their abilities to negotiate and persuade in French. Students will research and present information on a cultural product or practice from France. They will develop knowledge and skills to share observations and consider how the product or practice may reflect a specific cultural perspective or behaviour.

Prerequisites

Completion of French Units 1 & 2

Skills to be developed

- Communicate in French for a range of purposes including interpersonal, interpretive and presentational contexts
- Communicate using the five macro skills: listening, speaking, reading, writing and viewing
- Understand and appreciate the cultural contexts in which French is spoken, enhancing intercultural awareness

Assessment tasks

- Vocabulary quizzes
- Interpersonal communication: oral presentation and general conversation
- Interpretive communication: listening and responding; reading and responding
- Presentational communication: written responses in French
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

- Customs and Border Protection Officer
- Diplomat
- Foreign Correspondent
- Importer/Exporter
- International Business Manager
- International Relations/Diplomat
- Lawyer (International law)
- Linguist
- Teacher/Education Consultant
- Tour Guide or Travel Consultant
- Translator/Interpreter



Year 12 2027 Subject Guide

Mathematics

General Mathematics Units 3 & 4

Each unit is completed over a semester.

Overview

The General Mathematics Units 3 and 4 course consists of four main topics: data analysis, recursion and financial modelling, matrices, and networks.

The focus throughout the course is on applying the core skills of each topic to real-world contexts and communicating the solutions clearly and precisely.

Technology use with CAS calculators is integrated throughout the course.

Prerequisites

No prerequisites

Skills to be developed

- Using the CAS calculator effectively
- Univariate data
- Bivariate data
- Time series
- Modelling growth and decay using recurrence relations
- Financial modelling using recurrence relations
- Theory and applications of matrices
- Theory and applications of networks

Assessment tasks

- Quizzes
- Topic tests
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

- Accountant
- Agricultural Scientist
- Construction Manager
- Economist
- Finance Manager
- Financial Planner
- Importer/Exporter
- Logistics and Supply Chain Manager
- Market Researcher
- Project Manager



Year 12 2027 Subject Guide

Humanities

Geography Units 3 & 4

Each unit is completed over a semester.

Overview

Unit 3 Geography is a study of Changing the Land. Students will examine Melbourne Docklands as an urban land-use change, followed by studies of the process of melting glaciers and deforestation as significant changes in global land cover. For each topic students will evaluate the causes of, impacts of and responses to the changing land cover.

Unit 4 Geography examines Human Population, looking at population dynamics, demography and the issues which arise from the changes in population. In-depth case studies are used to show local, national and global responses to population issues.

Prerequisites

No prerequisites

Skills to be developed

- Development of a sense of wonder and curiosity about people, culture and environments throughout the world
- Development of knowledge and understanding of geographic phenomena
- Understanding the complexity of natural and human-induced geographic phenomena
- The analysis of information and a capacity to make informed judgments and decisions about geographic challenges

Assessment tasks

- A fieldwork report (1500–2000 words)
- Structured questions
- Data analysis
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Agricultural Scientist
- Architect/Landscape Architect
- Conservation Officer
- Engineer
- Environmental Scientist
- Forester
- Geographic Information Systems Officer
- Geologist
- Land and Property Economist
- Surveyor
- Urban and Regional Planner



Year 12 2027 Subject Guide

Health, Wellbeing and Physical Education

Health & Human Development Units 3 & 4

Each unit is completed over a semester.

Overview

In these units, students look at health, wellbeing and illness in Australia and in a global context. Students begin to analyse the differences in health status seen in a variety of countries, along with strategies used to promote health and wellbeing, both domestically and globally. As they consider the benefits of optimal health and wellbeing and its importance as an individual and a global resource, students investigate the key concepts of sustainability and human development.

Prerequisites

No prerequisites

Skills to be developed

- Analyse data to describe and evaluate the current health status of populations
- Analyse trends to identify morbidity and mortality over time
- Draw informed conclusions through data analysis
- Evaluate health promotion initiatives
- Create initiatives designed to promote health and wellbeing
- Discuss the long-term impact of ill health on a country
- Analyse the role of various organisations in promoting health of individuals and communities.

Assessment tasks

- Quizzes
- Area of study tests
- Case studies
- Data analysis tasks
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Audiologist
- Dietitian/Nutritionist
- Health Information Manager
- Health Promotion Practitioner
- Occupational Therapist
- Optometrist
- Osteopath
- Psychologist
- Speech Pathologist



Year 12 2027 Subject Guide

Humanities

History: Revolutions Units 3&4

Each unit is completed over a semester.

Overview

Two communist revolutions are studied independently:

First, the Russian Revolution from 1896 to 1927 (Coronation of Tsar Nicholas to the end of the New Economic Policy).

Next, the Chinese Revolution from 1912 to 1976 (The Chinese Republic to the death of Mao Zedong).

For each revolution, the causes and the consequences are examined in separate units.

Prerequisites

No prerequisites

Skills to be developed

- Analyse the long-term and short-term causes and consequences of revolution
- Use primary sources as evidence
- Evaluate the significance of ideas, events, individuals and popular movements
- Evaluate continuity and change in society as a consequence of the revolution
- Evaluate the degree to which revolutionary ideals were achieved
- Compare a range of revolutionary experiences and perspectives to understand change
- Evaluate historical interpretations (historians' views) about a revolution
- Construct arguments using primary sources and historical interpretations as evidence.

Assessment tasks

- Quizzes
- A historical inquiry
- Essays and extended responses
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Criminologist
- Historian
- International Relations
- Journalist
- Lawyer
- Librarian
- Political Scientist
- Publisher



Year 12 2027 Subject Guide

Languages

Japanese Units 3 & 4

Each unit is completed over a semester.

Overview

In Japanese Units 3 & 4, students investigate the way Japanese speakers interpret and express ideas, and they develop their abilities to negotiate and persuade in Japanese. Students will research and present information on a cultural product or practice from Japan and develop knowledge and skills to share observations and consider how the product or practice may reflect a specific cultural perspective or behaviour. Students will consolidate and extend their vocabulary, grammar knowledge and language skills to investigate topics through Japanese. There will be a strong focus on the acquisition and improvement of oral language skills, so as to prepare students for the oral examination at the end of the year.

Prerequisites

Completion of Japanese Units 1 & 2

Skills to be developed

- Communicate in Japanese for a range of purposes including interpersonal, interpretive and presentational contexts
- Communicate using the five macro skills: listening, speaking, reading, writing and viewing
- Understand and appreciate the cultural contexts in which Japanese is spoken and to enhance intercultural awareness

Assessment tasks

- Vocabulary and grammar quizzes
- Interpersonal communication – oral tests
- Interpretive communication – reading and listening tests
- Presentational communication – writing tests
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

Bilingualism is an advantage in every field. Specific examples include:

- Foreign Correspondent
- Importer/Exporter
- International Finance
- International Relations/Policy Development
- Interpreter
- Language Teacher/Education Consultant
- Lawyer (International Law)
- Linguist
- Travel Consultant



Year 12 2027 Subject Guide

Languages

Latin Units 3 & 4

Each unit is completed over a semester.

Overview

The study of Latin Units 3 & 4 provides students with a key to the literature, history and culture of the ancient Roman world, with a particular focus on the downfall of the Roman Republic to the emergence of the Roman Empire. By exploring a variety of original Latin texts, including seminal works of history, epic poetry, philosophy and legal practice, students acquire a knowledge and appreciation of ancient Roman life and culture. An understanding of the form and structure of Latin, and the ability to apply this knowledge, will also enhance students' skills in English and other Romance Languages.

Prerequisites

Completion of Latin Units 1 & 2

Skills to be developed

- Express Latin grammatical structures accurately in English
- Identify the author's purpose
- Identify features of the text that support the underlying theme
- Identify and explain specific literary, stylistic and structural techniques used by Latin writers
- Identify and explain how aspects of content, choice of language and structure of texts support the author's purpose
- Explain the cultural and historical context of texts studied
- Extract details from a given text which support the underlying themes; analyse the author's purpose

Assessment tasks

- Unseen text translation tests
- Written responses to seen texts
- School Assessed Coursework (SACs)
- Final examination contributing 50% to the study score

Possible career applications

- Editor
- Diplomat
- Doctor
- Language Teacher
- Lawyer
- Linguist
- Medical Practitioner
- Speech Pathologist



Year 12 2027 Subject Guide

Humanities

Legal Studies Units 3&4

Each unit is completed over a semester.

Overview

In Unit 3, students explore topics such as the rights available to the accused and victims in the criminal justice system, the roles of the judge, jury, legal practitioners and the parties, and the ability of sanctions and remedies to achieve their purposes. Students investigate the extent to which the principles of justice are upheld in the justice system.

In Unit 4, students develop an understanding of the significance of the High Court in protecting and interpreting the Australian Constitution. They investigate parliament and the courts, and the relationship between the two in law-making, and consider the roles of the individual, the media and law reform bodies in influencing changes to the law, and past and future constitutional reform.

Prerequisites

No prerequisites but Units 1 & 2 Legal Studies is strongly recommended.

Skills to be developed

- Define and use legal terminology
- Discuss, interpret, analyse and apply legal principles and information to actual and/or hypothetical scenarios/cases
- Discuss the impacts of a range of factors on the achievement of the principles of justice
- Evaluate the ability of the criminal and civil justice system to achieve its goals
- Evaluate how the Australian Constitution constrains parliament in law-making
- Evaluate the ability of law reform bodies to influence a change in the law

Assessment tasks

- Short answer questions
- Extended response questions
- Case study responses
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Criminologist
- Police Officer/Detective
- Journalist
- Politician
- Intelligence Officer
- Human Resource Manager
- International Relations
- Lawyer (Solicitor/Barrister)
- Media and Communication
- Mediator
- OH&S/Compliance
- Policy Development



Year 12 2027 Subject Guide

English

Literature Units 3 & 4

Each unit is completed over a semester.

Overview

In Unit 3, students consider how the form of a text affects meaning, how writers construct their texts and how the cultural context in which the text was created affects its meaning. They compare texts that have been adapted from other text forms, such as a novel or play that has been made into a film, and how meaning is affected as texts are adapted and transformed. They explore the different ways we can read and understand a text by developing, considering and comparing interpretations of a set text.

In Unit 4, students develop creative responses to texts and present the reasons for, and intended impact of, their creative decisions in oral form. They investigate literary criticism informing both the reading and writing of texts. Students develop an informed and sustained interpretation supported by close textual analysis.

Prerequisites

No prerequisites

Skills to be developed

- Identify and analyse the views and values in texts
- Analyse how literary criticism informs readings of texts
- Critically reflect on how language choices and literary features from the original text are used in the adaptation
- Analyse how key passages and features in a text contribute to an interpretation

Assessment tasks

- Creative writing
- Passage analysis
- Analysis of text adaptation
- School Assessed Coursework (SACs)
- Examination



Year 12 2027 Subject Guide

Mathematics

Mathematical Methods Units 3 & 4

Each unit is completed over a semester.

Overview

The Mathematical Methods Units 3 & 4 course involves the study of topics listed below. This subject is a continuation of Mathematical Methods Units 1 & 2. It is rigorous and academic in nature and builds on a number of key topic areas tackled previously. The areas of study involved are:

- Functions, relations and graphs
- Algebra, number and structure
- Calculus
- Data analysis, probability and statistics

Prerequisites

Completion of Mathematical Methods Units 1 & 2

Skills to be developed

- Graphs and functions
- Transformations and polynomials
- Exponential and logarithmic functions
- Circular functions
- Differentiation
- Integration
- Discrete and continuous random variables
- Normal distributions and sampling

Assessment tasks

- Quizzes
- Topic tests
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

- Actuary
- Astronomer
- Computer Programmer
- Engineer
- Investment Analyst
- Medical Practitioner
- Meteorologist
- Pilot
- Risk Manager
- Surveyor



Year 12 2027 Subject Guide

Creative and Performing Arts

Media Units 3 & 4

Each unit is completed over a semester.

Overview

This subject builds upon skills and understanding from Media Units 1 & 2. Students will be provided with the opportunity to analyse media concepts, forms and products in an informed and critical way. Students consider narratives, technologies and processes from various perspectives. They examine the media's role in contributing to and influencing society. Students integrate these aspects through the individual design and production of their media representations, narratives and products.

Students gain knowledge and skills in planning and expression valuable for participation in and contribution to contemporary society. This study leads to pathways including screen and media, marketing and advertising, games and interactive media, communication and writing, graphic and communication design, photography and animation.

Prerequisites

No prerequisites

Skills to be developed

- Develop critical thinking skills
- Analytical writing related to the media
- Plan and produce their own media representations
- Develop skills and refine skills related to technologies in creating own media products
- Evaluate and examine the influence of the media
- Investigate, examine and evaluate debates around the role of contemporary media and its implications for society
- Ability to apply media language to their analysis

Assessment tasks

- Written responses and analysis
- Production folio and tasks
- Oral presentations
- Examination

Possible career applications

- Film and Television Industry
- Journalism
- Marketing and Publishing
- Communications
- Public Relations
- Advertising
- Market Research
- Event Manager
- Web Design



Year 12 2027 Subject Guide

Creative and Performing Arts

Music Repertoire Performance Units 3 & 4

Each unit is completed over a semester.

Overview

In Music Repertoire Performance Units 3 & 4, students present performances of selected repertoire culminating in a 20-minute externally assessed recital at the end of the year. Students focus on improving their performance and musicianship skills. This subject is designed for musicians who learn music primarily from written notation but can include a variety of classical and contemporary styles. Students identify strengths and weaknesses in their performance and select exercises that aim to consolidate and refine their command of instrumental and presentation techniques. Students draw on the expressive elements of music to analyse previously unheard works in a variety of styles and genres. Throughout each unit, students also study aural and theory concepts in order to develop their musicianship skills and apply this knowledge when preparing and presenting performances.

Prerequisites

There are no prerequisites, although a score of at least 70% in Year 10 Music is recommended or approximately Grade 4 AMEB performance standard. Students should be having weekly individual lessons on their chosen instrument.

Skills to be developed

- Learning, rehearsing and interpreting a program of solo and ensemble works
- Exploring the various aspects that make an effective performance
- Developing strategies and approaches to address individual technical challenges and optimise performance
- Using the expressive elements to analyse music in a variety of styles and genres
- Studying aural and theory concepts to develop musicianship

Assessment tasks

- End of semester recitals
- Ensemble participation
- Technical exercises presentation and discussion
- Music language tests (aural and written)
- Examinations (performance and written)

Possible career applications

- Audiovisual Technician
- Composer
- Conductor
- Director
- Media and Communication
- Multimedia Developer
- Music Critic
- Music Therapist
- Performer
- Sound Engineer



Year 12 2027 Subject Guide

Creative and Performing Arts

Music Contemporary Performance Units 3 & 4

Each unit is completed over a semester.

Overview

In Music Contemporary Performance Units 3 & 4, students present performances of selected repertoire culminating in a 20 minute externally assessed recital at the end of the year. Students focus on improving their performance and musicianship skills. This subject is designed for musicians who do not learn music primarily from written notation but focus on contemporary styles including the use of improvisation and re-imagining of works. Students identify strengths and weaknesses in their performance and select exercises that aim to consolidate and refine their command of instrumental and presentation techniques. Students will draw on the expressive elements of music to analyse previously unheard works in a variety of styles and genres. Throughout each unit, students also study aural and theory concepts in order to develop their musicianship skills and apply this knowledge when preparing and presenting performances.

Prerequisites

No prerequisites, although a score of at least 70% in Year 10 Music is recommended or approximately Grade 4 AMEB performance standard. Students should be having weekly individual lessons on their chosen instrument.

Skills to be developed

- Learning, rehearsing and interpreting a program of solo and ensemble works
- Exploring the various aspects that make an effective performance
- Developing strategies and approaches to address individual technical challenges and optimise performance
- Using the expressive elements to analyse music in a variety of styles and genres
- Studying aural and theory concepts to develop musicianship

Assessment tasks

- End of semester recitals
- Ensemble participation
- Technical exercises presentation/discussion
- Music language tests (aural and written)
- Examinations (performance and written)

Possible career applications

- Audiovisual Technician
- Composer
- Conductor
- Director
- Media and Communication
- Multimedia Developer
- Music Critic
- Music Therapist
- Performer
- Sound Engineer



Year 12 2027 Subject Guide

Humanities

Politics Units 3 & 4

Each unit is completed over a semester.

Overview

In Unit 3, students explore the challenges of global cooperation and conflict by investigating a significant global issue, such as climate change, economic instability, development, or weapons of mass destruction, as well as a contemporary crisis involving human rights, armed conflict or the mass movement of people. They examine the roles and responses of global actors including states, international institutions, and non-state actors, and evaluate the effectiveness of these actors in resolving issues and promoting political stability or change.

In Unit 4, students investigate power and national interest in the Indo-Pacific region. They analyse how one major regional state (e.g. China, the US or India) uses various forms of power to achieve its interests. They also explore how effectively Australia uses power and foreign policy instruments in pursuit of its own national interests.

Prerequisites

No prerequisites

Skills to be developed

- Analysing the causes and consequences of global issues and crises
- Evaluating the effectiveness of global actors in resolving conflicts
- Investigating national interests and foreign policy
- Using contemporary examples to construct political arguments
- Interpreting multiple perspectives on regional cooperation and conflict
- Assessing political significance of global and regional actions.

Assessment tasks

- Short answer questions
- Extended responses
- Source analysis
- Political inquiry
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

- Criminologist
- Employee Relations Officer
- Intelligence Officer
- International Relations
- Journalist
- Lawyer
- Parliamentarian
- Policy Development
- Psychologist
- Research Analyst
- Teacher/Lecturer



Year 12 2027 Subject Guide

Creative and Performing Arts

Product Design and Technologies Units 3 & 4

Each unit is completed over a semester.

Overview

In this course, students are engaged in the investigation, design and development of a product that addresses an ethical personal problem, or a local or global problem that meets the needs and wants of a potential end-user (or end-users).

The product is developed through a design process and is influenced by a range of factors, including:

- the purpose, function and context of the product
- user-centred design
- innovation and creativity
- design elements and principles
- sustainability concerns
- economic limitations
- legal responsibilities
- material characteristics and properties
- technology

Prerequisites

Completion of Product Design and Technologies Units 1 & 2

Skills to be developed

- Conduct research using interviews or market research to create an end user/s' profile
- Conduct and present research relevant to the design brief
- Use a range of visualisations, drawing and communication methods
- Use end-user/s' feedback to select and justify the preferred design option
- Prepare a scheduled production plan
- Research, test and use experimentation techniques and/or trial processes
- Record progress of production activities and explain and justify modifications and improvements

Assessment tasks

- Folio and product completion (SAT)
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Civil Engineer
- Construction Management
- Fashion Design
- Industrial Designer
- Performance Design (Set and Costume)
- Product Design Engineering
- Spatial Design (interior/exterior/virtual)
- Trades



Year 12 2027 Subject Guide

Health, Wellbeing and Physical Education

Physical Education Units 3 & 4

Each unit is completed over a semester.

Overview

In these units, students learn the biomechanical and skill acquisition principles used to analyse human movement skills and energy production from a physiological perspective. Students investigate the relative contribution and interplay of the three energy systems to performance in physical activity, sport and exercise. This includes participating in a variety of training sessions designed to improve or maintain fitness and to evaluate the effectiveness of different training methods.

Prerequisites

No prerequisites

Skills to be developed

- Analyse a range of movements in physical activities to improve performance
- Perform, observe and analyse a variety of movements used in physical activities
- Investigate, evaluate and critically analyse a range of performance enhancing practices from a physiological perspective
- Use a range of data collecting methods including heart rate monitors and GPSs to analyse performance
- Measure and report on changes to the cardiovascular, muscular and respiratory systems, during and after exercise

Assessment tasks

- Quizzes, tests
- Practical reports
- Designing and conducting a training program
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Chiropractor
- Exercise Scientist
- Facilities Manager
- Nutritionist
- Outdoor Education Specialist
- Paramedic
- Physiotherapist
- Sports Manager
- Sports Medicine
- Sportsperson



Year 12 2027 Subject Guide

Science

Physics Units 3 & 4

Each unit is completed over a semester.

Overview

Over the course of VCE Physics Units 3 and 4, students explore some of the most important ideas in modern physics and how they explain the world around us. They investigate motion, forces, energy, electricity, magnetic and gravitational fields, and learn how these concepts are applied in technologies such as motors, generators, satellites and particle accelerators.

Students also examine groundbreaking scientific developments including quantum physics, the photoelectric effect, wave-particle duality and Einstein's theory of relativity. A strong emphasis is placed on practical investigations, data analysis and scientific problem-solving, culminating in a student-designed research project. Through both theory and experimentation, students develop critical thinking, analytical skills and a deeper understanding of how physics shapes our modern world.

Prerequisites

Completion of Physics Units 1 & 2

Skills to be developed

- Apply the scientific method to practical and research tasks
- Examine data for trends, comparisons and conclusions
- Reflect critically on results
- Understand and apply science language correctly
- Apply mathematical skills to problem solving

Assessment tasks

- Quizzes
- Topic tests
- Practical reports
- Performing a data analysis
- Designing and conducting an extended investigation
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Aerospace Engineer
- Astronomer
- Astrophysicist
- Biomedical Engineer
- Geophysicist
- Medical Physicist
- Meteorologist
- Nanotechnologist
- Product Design Engineer
- Robotics/Mechatronics Engineer



Year 12 2027 Subject Guide

Science

Psychology Units 3 & 4

Each unit is completed over a semester.

Overview

In Unit 3, students learn how the nervous system co-ordinates with the brain to respond to changes in the internal and external environments. Stress is a key topic, as well as changes that occur at a neural level, particularly with memory and learning.

In Unit 4, consciousness will be investigated, with an emphasis on sleep as an altered state. The course then moves on to mental health, with a focus on anxiety disorders such as phobias.

Prerequisites

No prerequisites

Skills to be developed

- Identifying key psychological terms
- Connecting psychological theory to behaviour, data and/or scenarios (stories)
- Comparing and contrasting theories
- Developing research questions
- Conducting investigations and collecting data
- Drawing evidence-based conclusions
- Formulating hypotheses and understanding the implications of research design
- Operationalising variables

Assessment tasks

- Practical investigation
- Annotated folio of practical activities
- Media response
- Test
- Data analysis
- Evaluation of research
- School Assessed Coursework (SACs)
- Examination

Possible career applications

- Counsellor
- Criminologist
- Human Resources Manager
- Media and Communication
- Occupational Therapist
- Psychologist
- Public Relations Manager
- Research Analyst
- Social Worker
- Teacher



Year 12 2027 Subject Guide

Mathematics

Specialist Mathematics Units 3 & 4

Each unit is completed over a semester.

Overview

The Specialist Mathematics Units 3 & 4 course involves the study of a variety of topics. This subject is a continuation of Specialist Mathematics Units 1 & 2. It is rigorous and academic in nature and builds on a number of key topic areas tackled previously.

The six areas of study involved are:

- Logic and proof
- Functions, relations and graphs
- Algebra, number and structure
- Calculus
- Space and measurement
- Data analysis, probability and statistics

Prerequisites

- Completion of Specialist Mathematics Units 1 & 2
- Completion, or concurrent study, of Mathematical Methods Units 3 & 4

Skills to be developed

- Vectors
- Proof
- Circular functions and complex numbers
- Differentiation and rational functions
- Integration and its applications
- Differential equations
- Kinematics and vector functions
- Probability and statistics

Assessment tasks

- Quizzes
- Topic tests
- School Assessed Coursework (SACs)
- Examinations

Possible career applications

- Actuary
- Astronomer
- Computer Programmer
- Engineer
- Investment Analyst
- Medical Practitioner
- Medical Scientist
- Meteorologist
- Pilot
- Surveyor



Year 12 2027 Subject Guide

Creative and Performing Arts

Visual Communication Design Units 3 & 4

Each unit is completed over a semester.

Overview

In Unit 3: Visual Communication in Design Practice, students act as both design analysts and practitioners. First, they study contemporary designers to understand their professional practices, responsibilities, and how they use visual language to solve problems. Next, they start their own major design project, tackling the first three phases of the VCD design process. They conduct research (Discover), write a comprehensive design brief for a client with distinct communication needs (Define), and generate a range of ideas for those needs (Develop).

In Unit 4: Delivering Design Solutions, students are dedicated to completing the major design project started in Unit 3, focusing on the final phases of refinement and resolution. Students take their initial concepts, test them using mock-ups and prototypes, and use an iterative cycle of feedback and refinement to develop their final solutions. The unit culminates in creating a professional pitch to justify their design choices and presenting two high-quality design solutions that respond directly to the brief. Students carefully select appropriate materials and presentation formats to ensure their final work is impactful and professional.

Prerequisites

Completion of VCD Units 1 & 2 (highly recommended)

Skills to be developed

- Managing a major design project
- Analysing professional practice
- Developing a professional brief
- Iterative prototyping and refinement
- Pitching and justifying designs
- Producing high-quality solutions

Assessment tasks

- School Assessed Coursework (SACs)
- School Assessed Task (SAT)
- Examination

Possible career applications

- Architect
- Interior Designer
- Landscape Architect
- Urban Planner
- Industrial Designer
- Product Designer
- 3D Modeller/Digital Artist
- Graphic and Web Designer
- UI/UX (User Interface/User Experience) Designer
- Marketing and Advertising Professional
- App Developer

