

Brisbane State High School

# Junior Course Guide

Effective for 2019

Version 2



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# School Philosophy

## Motto

We believe that the pursuit of knowledge equips and enables our students to make a powerful difference in the world.

## Purpose

As a learning community, we are committed to developing young people to achieve their potential intellectually, personally and socially.

Intellectually, as:

- life-long, curious learners
- independent, creative thinkers.

Personally, as:

- resilient, balanced individuals
- confident, principled communicators.

Socially, as:

- active, caring citizens
- enthusiastic, contributing team members.



*Scientia est Potestas*  
*Knowledge is Power*

## Values

**Learning:** we love knowledge, learning and curiosity.

**Excellence:** we strive for world class standards and personal bests.

**Respect:** we earn respect for our integrity, humility and altruism.

**Public education:** we celebrate diversity as well as the things that bind us together.

## Vision

Schooling at State High is a happy and inspiring experience—a time and a place where every young person develops intellectually, personally and socially. Every student experiences rigorous learning, significant personal growth and the spirit that comes from belonging to something bigger than themselves.

Together, teachers, students and parents leverage the strong traditions and history of the school to pursue and create a positive future. Our priorities come from a strong ethical base and deep sense of commitment to others and our society. We understand our place and responsibility as a leading educational community and the flagship of public education in Queensland.

We are committed to working in partnership with our community as the natural place for students to explore their developing leadership and social commitment. At the same time, we look to prepare students to be successful across cultures and countries.

We are committed to personalising learning for each student to ensure that they maximise the opportunities this school provides. We all have a growth mindset. Our approach to teaching and learning is deliberate, backed by research and focused on unlocking the potential in each of us.

# Key Staff Contacts

**Key personnel currently involved with Brisbane State High School's Junior School Program include:**

## Executive Team

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## Heads of Department

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## Learning and Student Support

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Please note that staffing changes may occur. Please refer to our website for the most current list of contacts.

# Introduction

Our Learning Policy shapes the planning, delivery and assessment of student learning at State High. It outlines our Pedagogical Framework, Dimensions of Learning, as well as the relevant processes and protocols, such as homework and assessment programs. The Policy also provides information pertaining to the management of issues which may arise during the teaching and learning cycle. To access the Policy, please follow this [link](#), or go to <https://brisbaneshs.eq.edu.au/Supportandresources/Formsanddocuments/Documents/Ourschool/learning-policy.pdf>

Brisbane State High School is all about **learning**. We believe that all people can learn. Each individual has special qualities, interests and character to be developed. We provide learning experiences in all aspects of life. Young people will experience learning that is rigorous, future-focused, enterprising and transferable to the range of situations they will encounter. We believe that young people learn best when they have structure as well as space and time to foster creativity – time to think and grow. This teaching comes to life through excellent relationships between learner and teacher. We think that learning should be inspirational, challenging and fun.

We are committed to personal **excellence** and expect each person to strive for their best and consistently work hard. We believe in setting high standards and providing quality support to help people reach those standards and experience success. The school provides an extensive range of high quality opportunities and experiences so our students maximise their potential. Excellence for students and teachers means they take charge of their own learning, work collaboratively and engage in robust feedback to remain at the cutting edge of their studies/profession.

## Teaching, Learning and Curriculum Principles

Our shared vision for Teaching, Learning, Curriculum and Assessment at State High is informed by these common principles:

1. Everyone can learn at high levels.

2. Every lesson counts.
3. Different people learn in different ways.
4. Productive Habits of Mind can be taught and learnt.
5. Teachers and students aspire to the highest academic standards.
6. Teachers and students are creative and dynamic users of technology.

### **Classrooms at State High are characterised by:**

1. Energy, enthusiasm and a love of learning.
2. Productive and supportive relationships between teachers and students.
3. A variety of learning modes.
4. Structured opportunities for students to think both independently and interdependently.
5. Students persisting with complex problems and striving for accuracy.
6. Higher-order thinking.

### **Curriculum at State High is characterised by:**

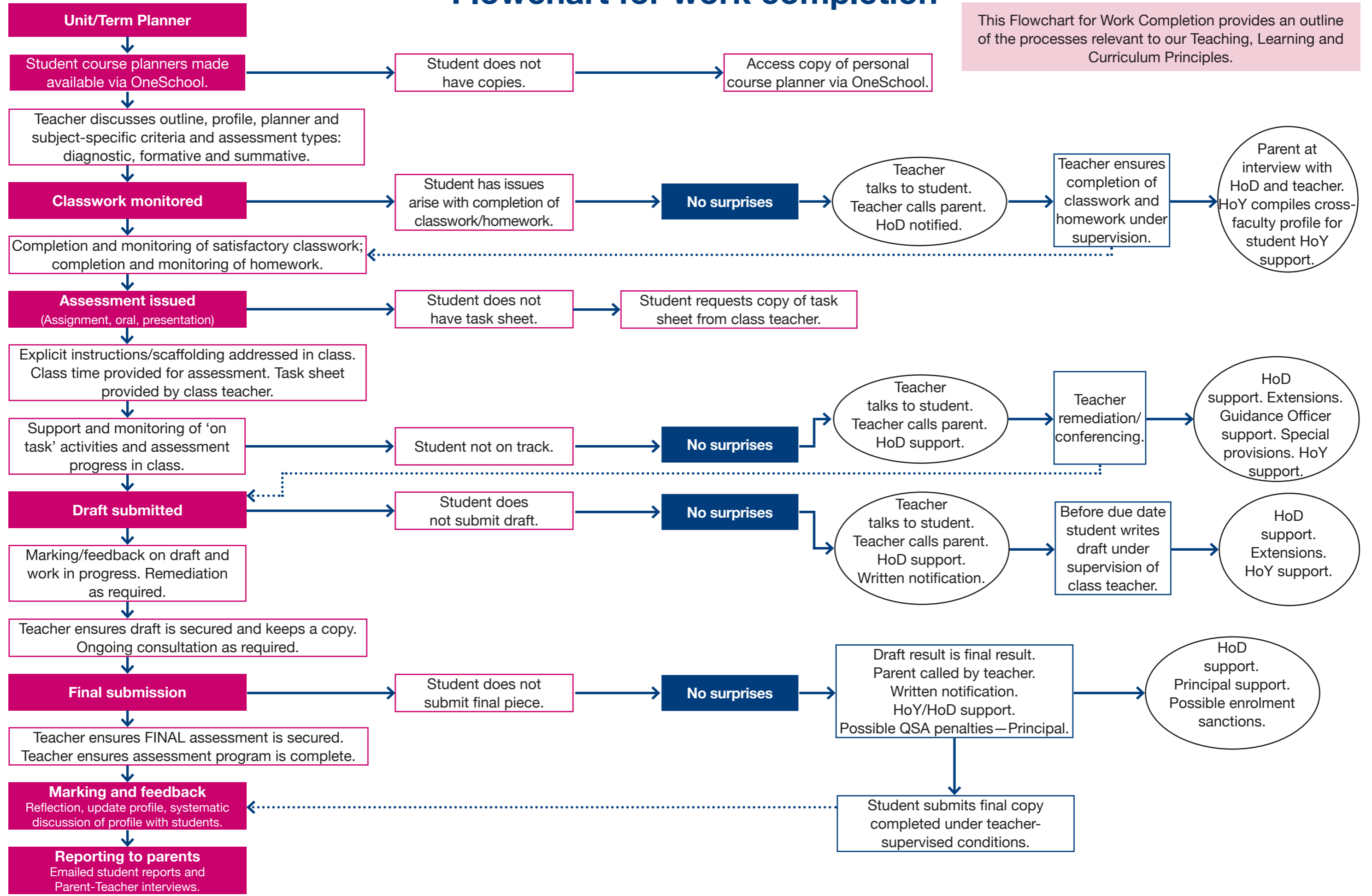
1. Regular opportunities for students to excel.
2. An appropriate degree of challenge and complexity.
3. A developmental approach to thinking and practical skills, processes and conceptual understanding.
4. Strong emphasis on deep understanding and an ability to apply understanding to unfamiliar situations.
5. Discerning and ethical use of technology to locate, filter and use information, collaborate with others and design innovative solutions and products.
6. Explicit teaching of the required literacy and numeracy skills.
7. Clear connections to the world beyond the school.

### **Assessment at State High:**

1. Is measured against clearly-stated criteria.
2. Is supported by appropriate preparation activities and support materials.
3. Requires students to problem-solve, analyse, synthesise and evaluate, in addition to locating, classifying or recalling information.
4. Provides sufficient opportunities for every student to achieve to their potential.
5. Is followed by time for students to reflect on their learning and to receive feedback on their progress.
6. Is academically honest.

# Flowchart for work completion

This Flowchart for Work Completion provides an outline of the processes relevant to our Teaching, Learning and Curriculum Principles.



## The State High Curriculum

Brisbane State High School offers a diverse range of subjects that can be studied in Year 7 to 12. This is in part a function of our size, but also a product of our commitment to meeting the learning needs of a diverse student population with different strengths, areas of interest and future aspirations.

The foundations of the school's academic curriculum which guide the teaching and learning at State High include:

- Teaching, Learning and Curriculum – Statement of Principles
- A common pedagogical framework centred on 'Dimensions of Learning'
- The use of ICTs to support and enhance student understanding
- The development of students' multi-literacies
- Higher-order thinking and problem-solving

In summary, we aim to create a curriculum structure that balances both student choice and our commitment to producing well-rounded individuals who participate effectively in broader society as young adults.

## Structure of the school day – Junior School

- Six subjects are studied in any one semester.
- Each Compulsory subject is timetabled for three 70 minute lessons each week with Electives timetabled for three times per week, for one semester of a year. Please refer to the Overview: Curriculum Progressions for more information.
- Students also complete one lesson per week of the ARC program.

### Learning Areas

There are eight Learning Areas around which our Junior School Curriculum is structured, based on the Australian National Curriculum:

1. Business, Innovation & Design
2. English
3. Health and Physical Education
4. Humanities
5. Languages
6. Mathematics
7. Science
8. The Arts

## Selecting subjects

Students' time in Junior School affords them the opportunity to try out some subjects to see if they enjoy them and if further study of these subjects is a possibility or desirable in future years. In order to maximise students' performance and enable them to reach their goals, students should study the subjects in which they are interested and do well. It is a good idea for students to keep their options open by taking subjects that might be useful in preparing for Senior Schooling, or where there is a clear, logical progression, such as studying a language to Year 12. However, if students choose subjects that they find too difficult, or that are not suited to their interests, this may not be the most appropriate pathway for them.

In some Learning Areas, there are options available for students so that they can experience a broader range of disciplines before making informed selections of courses for study in Senior School. At the same time, students might find it beneficial to continue their study of courses, such as a Language, from primary school. Every effort will be made to ensure that student preferences are accommodated, subject to student/class numbers and timetable constraints.

## Selecting semester units

Twelve units of study must be selected for the year (six per semester).

### Year 7 and 8

- The following subjects must be studied for two semesters in both Year 7 and 8:
  - English or Aspire English
  - Humanities or Aspire Humanities
  - Mathematics or Aspire Mathematics
  - Science or Aspire Science

N.B. There will be a separate process to select students for the Aspire Programs.

In Year 7 and 8, students may apply to study more than one Aspire Program: Aspire English/Humanities and/or Aspire Mathematics/Science. Please note that this is a two-year program.

Students will study subjects from the following Learning Areas for one semester in both Year 7 and 8:

- Health and Physical Education
- Languages – options available
- Technologies – options available (includes Aspire Engineering)
- The Arts – options available

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Core subjects
English or Aspire English Humanities or Aspire Humanities Mathematics or Aspire Mathematics Science or Aspire Science Health and Physical Education (one semester) Language (one semester) — Chinese, French, German, Italian, Japanese or Spanish
Semester electives
<b>The Arts</b> (choose one from the following) <ul style="list-style-type: none"><li>• Music</li><li>• Dance</li><li>• Drama</li><li>• Visual Art</li><li>• Media Arts</li></ul> <b>Business, Innovation &amp; Design</b> (choose one from the following) <ul style="list-style-type: none"><li>• Design</li><li>• Engineering</li><li>• Digital Solutions</li></ul>

### Year 9

The following subjects must be studied for two semesters in 9:

- English or English Extension
- Humanities
- Mathematics or Mathematics Extension
- Science

Students will study subjects from the following Learning Area for one semester in Year 9:

Languages — Chinese, French, German, Italian, Japanese or Spanish

For one semester, students will continue to study the language that was studied in Year 8. Students who intend to study the language in Year 10 must choose a second semester of this subject. This additional semester of the language will count as one of the three electives.

All students will select three additional subjects to study from the following Learning Areas:

- Business, Innovation & Design
- The Arts
- Health and Physical Education
- Science
- Humanities
- Languages – Unit 2 of language studied in Semester 1

Core subjects
<b>Two semesters</b> English or English Extension Mathematics or Mathematics Extension Science Humanities
<b>One semester (choose from one of the following)</b> <ul style="list-style-type: none"><li>• Chinese</li><li>• French</li><li>• German</li><li>• Italian</li><li>• Japanese</li><li>• Spanish</li></ul>
Semester electives
<b>Languages</b> If you wish to study a language in Year 10, you must choose it for an additional semester. This will count as one of your electives.
<b>Choose three from the following</b> Dance Design Digital Solutions Drama Engineering Entrepreneurial Business Health and Physical Education Media Arts Music or Music Extension Philosophy Psychology Visual Art

In order to select English Extension or Mathematics Extension for Year 9, students must have achieved a minimum B standard in their Year 8 English or Mathematics course to be considered. If eligible, a student may elect to enrol in both English Extension and Mathematics Extension.

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## How should students select subjects?

Selecting subjects should be based on consideration of the following points:

- Enjoyment
- Interest
- Previous successes/experiences
- Possible future pathways, if already known

A student SHOULD NOT choose subjects for the following reasons:

1. **'My friend is taking that subject.'** There are usually several classes in a subject, so even if you are doing the same subjects, you won't necessarily be in the same class.
2. **'I do/don't really like the teacher.'** There is no guarantee that you will have any particular teacher.

3. **'Someone told me that the subject is fun (or easy, or interesting).'** It may be enjoyable/easy/interesting for someone but not necessarily for you. Make up your own mind based on what you enjoy.

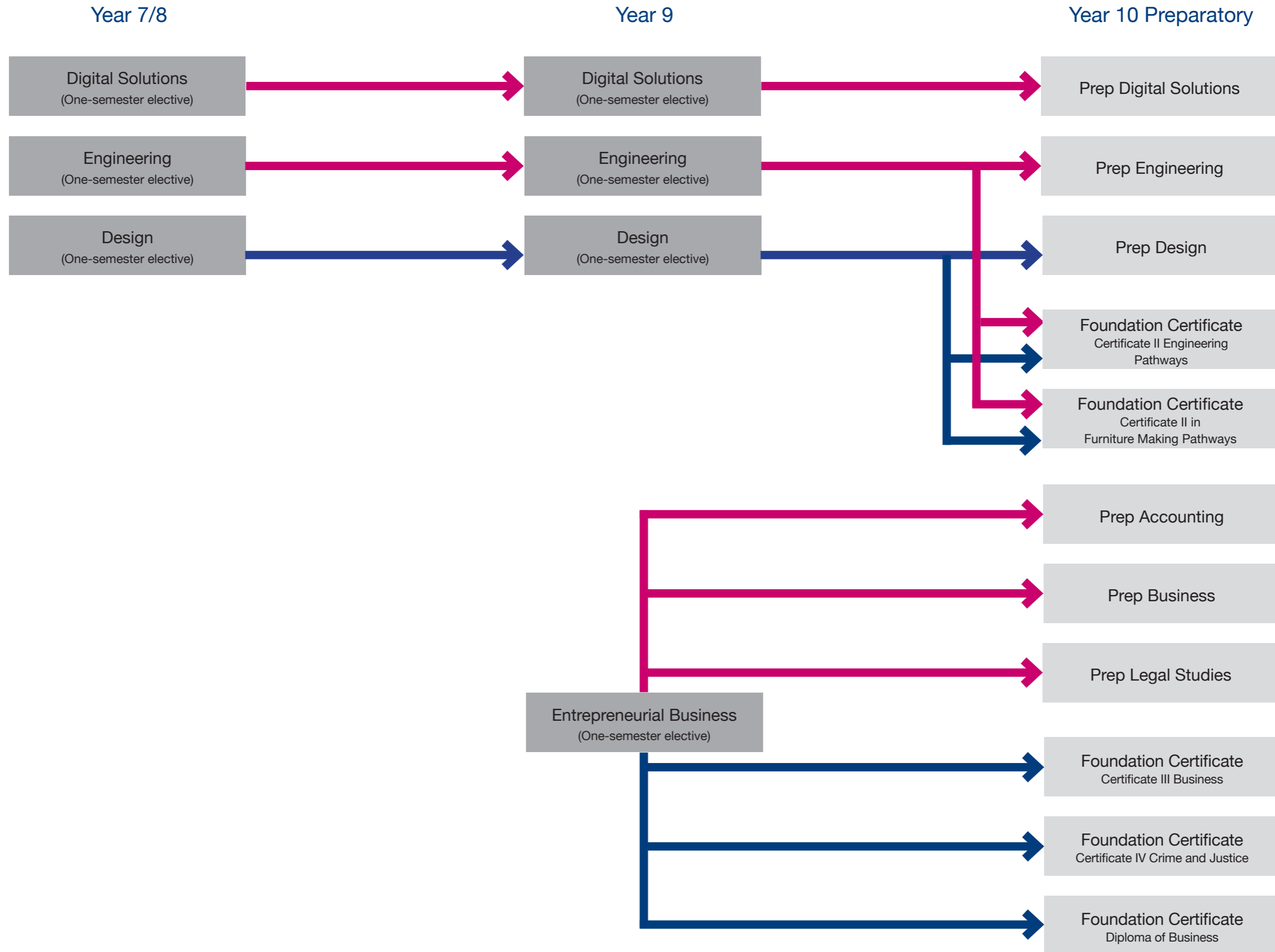
4. **'Someone told me that the subject is boring.'** See point 3.

5. **'Someone told me that I do/don't need that subject for the course I want to take in Year 12/at university.'** If you are planning this far ahead, speak to the relevant Head of Department, check tertiary prerequisites or see a Guidance Officer.

# Business, Innovation & Design



# Learning area: Business, Innovation & Design



## Engineering

### Purpose

Year 7 Engineering builds on lateral, creative solutions to develop enterprising and innovative individuals with the ability to make discerning decisions concerning the development, use and impact of technologies. A variety of delivery mediums will be utilised in order to create an environment where engineering problem-solving process involves the practical application of science, technology, engineering and mathematics (STEM) knowledge for students to work independently and collaboratively to solve complex, open-ended problems.

The Australian Curriculum: Design and Technologies – Engineering principles and systems are focused on developing understanding around introductory principles in mechanics and technology application. Students will be able to recognise, describe and solve problems, using engineering fundamentals.

### Course Outline

Students in Year 7 Engineering will develop and apply fundamental understanding of engineering design principles through investigating, generating, producing, evaluating, collaborating and managing a range of design problems within Robotics and Emerging Technologies.

### Unit description (deep understanding)

#### Robotics

This unit introduces students to robotics with current and real-world applications. Students will progress through a set of challenges and projects that promote creative programming, problem-solving, communication and teamwork.

#### Engineering Fundamentals

This unit introduces students to fundamental principles around engineering mechanics, statics and dynamics. Students will develop skills around how to recognise and describe engineering problems, concepts and principles (Newton's three laws, force, mass, matter, etc.).

### Key skills

- Symbolise and explain ideas and solutions.
- Analyse problems and information.
- Use design and systems thinking to generate design ideas and communicate these to a range of audiences.
- Generate prototype-solutions that assess the accuracy of predictions.
- Evaluate and refine ideas and solutions to make justified recommendations.
- Make decisions about and use mode-appropriate

features, language and conventions to communicate development of problem solutions.

### Assessment overview

Year 7 Engineering assessment includes Examination, Practical Projects and a Report.

### Pathways

The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 8 and then Year 9 Engineering.

## Design

### Purpose

The study of Design provides students with opportunities to engage in creating quality designed solutions for identified needs and opportunities across three key contexts: industrial design, graphic design and built environment. Students consider the functional, economic, environmental and social impacts of technological changes on the world.

The Australian Curriculum: Design and Technologies actively engages students in exploring, analysing, developing, producing and evaluating design solutions. Students are required to apply empathy to understand different users' needs and provide design solutions appropriate to differing audiences. Students also understand how the choice and use of technologies contributes to a sustainable future.

### Course Outline

The Year 7 Design course seeks to support students to develop skills of the design process including investigating, devising, evaluating, managing and presenting to propose real world solutions to a variety of design problems. Students will utilise a range of sketching, software and 3D prototyping skills (3D printing and foam core) which will assist with the design development. These will deepen an understanding of the topics of scale and ergonomics, elements and principles of design and sustainability while being appropriate to different clients' needs. The following units are indicative of the skills in which students will engage.

### Unit description

#### Welcome to Design

This unit will introduce students to different sketching types and the elements of principles of design as foundation skills and concepts.

#### Block Hero

This unit will introduce students to the concepts of

scale while developing students' sketching and 3D modelling.

#### Kitchen Mash-Up

This unit will introduce students to the skills of analysis and verbal presentation while also exploring the concepts of ergonomics and meeting clients' functional requirements.

These units will introduce students to the design process while developing research and analysis, sketching, devising, empathy and presentation skills.

## Digital Solutions

### **Purpose**

Learning in Digital Solutions focuses on developing understanding and skills in computational thinking such as decomposing problems and prototyping. Students will analyse the properties of networked systems and their suitability and use for the transmission of data types. They will acquire, analyse, validate and evaluate various types of data and appreciate the complexities of storing and transmitting that data in digital systems. Students will use structured data to model objects and events that shape the communities in which they actively engage. Furthermore they will develop their understanding of the vital role that data plays in their lives and how the data and related systems define and are limited by technical, environmental, economic and social constraints.

### **Unit description (deep understanding)**

#### Spreadsheets

This unit focuses on defining and decomposing problems taking into account functional requirements and other constraints. It focuses on analysing and visualising data using spreadsheets to create information and use structured data to model objects or events.

#### Algorithm Design and Computer Programming

This unit focuses on designing algorithms, representing them diagrammatically and in pseudocode, and tracing algorithms to predict output for a given input and to identify errors. Algorithms will then be implemented as a computer program using a general purpose programming language.

#### Data and Networks

This unit will investigate how digital systems represent text, image and audio data in binary.

Furthermore it will investigate how data is transmitted and secured in wired, wireless and mobile networks and how the specifications of hardware components impact on network activities.

### **Key skills**

Students will be engaged in the following digital technology skills throughout the Year 7 course:

- distinguishing between different types of networks and defined purposes;
- explaining how text, image and audio data can be represented in digital systems;
- analysing and evaluating data from a range of sources to model and create solutions using spreadsheets;
- designing, testing and modifying algorithms incorporating branching and iterations focuses; and
- planning and managing digital projects.

### **Assessment overview**

The Year 7 assessment program includes: Supervised Written Assessments and Digital Assignments.

### **Pathways**

Students will progress from Year 7 Digital Solutions to Year 8 Digital Solutions. The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 8. The usual progression would then be the study of Information Processing and Technology (IPT) in Year 9, 10, 11 and 12, if students meet prerequisite criteria.

## Engineering

### Purpose

Year 8 Engineering builds on lateral, creative solutions to develop enterprising and innovative individuals with the ability to make discerning decisions concerning the development, use and impact of technologies. A variety of delivery mediums will be utilised in order to create an environment where engineering problem-solving process involves the practical application of science, technology, engineering and mathematics (STEM) knowledge, for students to work independently and collaboratively to solve complex, open-ended problems.

The Australian Curriculum: Design and Technologies – Engineering principles and systems are focused on developing understanding around introductory principles in mechanics and technology application. Students will be able to recognise, describe and solve problems, using engineering fundamentals.

### Course Outline

Students in Year 8 Engineering will develop and apply fundamental understanding of engineering design principles through investigating, generating, producing, evaluating, collaborating and managing a range of design problems within the Engineering Fundamentals.

### Unit description (deep understanding)

#### Engineering Fundamentals

This unit introduces students to fundamental principles around engineering mechanics, statics and dynamics. Students will develop skills and understanding of potential and kinetic energy. Application of these energy concepts then helps to provide a framework creating key components of a design and build project.

### Key skills

- Engineering Principles (machine).
- Explain ideas and solutions through written and graphical communication methods.
- Analyse problems and information.
- Use design and systems thinking to generate design ideas and communicate these to a range of audiences.
- Generate prototype-solutions that assess the accuracy of predictions.
- Evaluate, test and refine ideas to make improvements upon original design concepts providing justified recommendations.
- Make decisions about and use mode-appropriate features, language and conventions to communicate the development of design concepts and problem solutions.

### Assessment overview

Year 8 Engineering assessment includes Examinations, Practical Projects and a Report.

### Pathways

Students will progress from Year 8 Engineering into Year 9 Engineering. The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 9.

## Design

### Purpose

The study of Design provides students with opportunities to engage in creating quality designed solutions for identified needs and opportunities across three key contexts: industrial design, graphic design and built environment. Students consider the functional, economic, environmental and social impacts of technological changes on the world.

The Australian Curriculum: Design and Technologies actively engages students in exploring, analysing, developing, producing and evaluating design solutions. Students are required to apply empathy to understand different users' needs and provide design solutions appropriate to differing audiences. Students also understand how the choice and use of technologies contributes to a sustainable future.

### Unit Descriptions

#### Looking to the Future

This unit will introduce students to innovative technologies and develop their research, synthesis and presentation skills to understand and promote an emerging technology.

#### Brighten your Life

This unit will develop students' analysis, sketching, devising, prototyping skills to design a table lamp for a specific client.

#### Selling for Good

This unit will develop students' understanding of graphic design to develop branding for a charity. This will develop students' analysis, sketching, devising and software skills.

### Key skills

- Unpacking design problems.
- Deconstructing real-world problems taking into account a range of requirements and constraints.
- Analysing systems and products using a range of different thinking tools.

- Understanding different clients and audience's needs.
- Producing annotated concept sketches and pictorial drawings.
- Rapid devising of multiple design ideas.
- Low-fidelity prototyping.
- Verbal presentation to pitch design proposals.
- Using a range of techniques to generate, communicate and present ideas.
- Evaluating design solutions against design criteria and providing recommendations to improve proposals.
- Justifying design decisions to suit each user's needs.

## Digital Solutions

### Purpose

The study of Design provides students with opportunities to engage in creating quality designed solutions for identified needs and opportunities across three key contexts: industrial design, graphic design and built environment. Students consider the functional, economic, environmental and social impacts of technological changes on the world.

The Australian Curriculum: Design and Technologies actively engages students in exploring, analysing, developing, producing and evaluating design solutions. Students are required to apply empathy to understand different users' needs and provide design solutions appropriate to differing audiences. Students also understand how the choice and use of technologies contributes to a sustainable future.

### Unit description (deep understanding)

#### Algorithms and Computer Programming

This unit focuses on designing algorithms, representing them diagrammatically and in pseudocode, and tracing algorithms to predict output for a given input and to identify errors. Algorithms will then be implemented as a computer program using a general purpose programming language.

#### Software Development

This unit focuses on defining and decomposing problems taking into account functional requirements and other constraints. It also focuses on designing the user interface of a digital system and implementing the solution using a software development kit.

#### Advanced Spreadsheets

In this unit, students will focus on analysing and visualising data using spreadsheets to create information and address complex problems. Students will model processes, entities and their relationships using structured data.

### Key skills

Students will be engaged in the following digital technology skills throughout the Year 8 course:

- defining and decomposing problems in terms of functional requirements and constraints;
- designing user experiences and algorithms incorporating branching and iterations, and test, modify and implement digital solutions;
- evaluating their solutions in terms of meeting needs, innovation and sustainability;
- planning and managing digital projects; and
- using appropriate protocols when communicating and collaborating online.

### Assessment overview

The Year 8 assessment program includes: Supervised Written Test and Digital Assignments.

### Pathways

Students will progress from Year 8 Digital Solutions to Year 9 Digital Solutions. The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 9. The usual progression would then be the study of Information Processing and Technology (IPT) in Year 10, 11 and 12, if students meet prerequisite criteria.



## Engineering

### Purpose

Year 9 Engineering builds on lateral, creative solutions to develop enterprising and innovative individuals with the ability to make discerning decisions concerning the development, use and impact of technologies. A variety of delivery mediums will be utilised in order to create an environment where engineering problem-solving process involves the practical application of science, technology, engineering and mathematics (STEM) knowledge, for students to work independently and collaboratively to solve complex, open-ended problems.

The Australian Curriculum: Design and Technologies – Engineering principles and systems are focused on developing understanding around introductory principles in materials and technology application. Students will be able to recognise, describe and solve problems, using engineering fundamentals.

### Course Outline

Students in Year 9 Engineering will develop and apply fundamental understanding of engineering design principles through investigating, generating, producing, evaluating, collaborating and managing a range of design problems within emerging materials and Programmable Devices.

### Unit description (deep understanding)

#### Emerging Technologies

This unit will focus on emerging technologies in 3D modelling and prototyping, utilising Autodesk software and 3D printers. This unit will include the essential skills required by young engineers to visually communicate their problem-solving and design process.

#### Programmable Devices

This unit allows students to develop foundation knowledge of control systems using programming skills to be applied in real world scenarios.

### Key skills

- Engineering Principles (structural, civil, control).
- Symbolise and explain ideas and solutions.
- Analyse problems and information.
- Use design and systems thinking to generate design ideas and communicate these to a range of audiences.
- Generate prototype-solutions that assess the accuracy of predictions.
- Evaluate and refine ideas and solutions to make justified recommendations.
- Make decisions about and use mode-appropriate

features, language and conventions to communicate development of problem solutions.

### Assessment overview

Year 9 Engineering assessment includes Practical Projects and a Report.

### Pathways

Students will progress from Year 9 Engineering into Year 10 Engineering. The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 10.

## Design

### Purpose

The study of Design provides students with opportunities to engage in creating quality designed solutions for identified needs and opportunities across three key contexts: industrial design, graphic design and built environment. Students consider the functional, economic, environmental and social impacts of technological changes on the world.

The Australian Curriculum: Design and Technologies actively engages students in exploring, analysing, developing, producing and evaluating design solutions. Students are required to apply empathy to understand different users' needs and provide design solutions appropriate to differing audiences. Students also understand how the choice and use of technologies contributes to a sustainable future.

### Unit Descriptions

#### Lunch Swap App

This unit aims to develop students' research, analysis, sketching, devising and presenting skills while focusing on the concept of food waste through the use of technologies.

#### Fashion For All

This unit focuses on the concepts of environmental and social sustainability in the fashion industry. Students will develop their research, sketching, devising and presentation skills to propose inclusive and ethical fashion solutions.

#### Laser-cut Zoo

This unit develops students' sketching, prototyping and software skills to develop a 3D laser cut animal.

### Key Skills

- Research and critical analysis of existing solutions using a range of different thinking tools.

- Design thinking process.
- Managing multiple tasks within projects.
- Understanding different audiences and their needs.
- Using a range of graphical representation techniques to develop sketch designs.
- Communicating design ideas through annotations.
- Rapid devising of multiple design ideas.
- Low-fidelity prototyping.
- Verbal presentation to pitch design proposals.
- Evaluating design solutions against design criteria and providing recommendations to improve proposals.
- Justifying design decisions to suit users' needs.

## Digital Solutions

### Purpose

Learning in Digital Solutions focuses on further developing understanding and skills in computational thinking such as precisely and accurately describing problems and the use of modular approaches to solutions.

Students learn how to develop multilevel abstractions, identify standard elements such as searching and sorting in algorithms and explore the trade-offs between the simplicity of a model and the faithfulness of its representation.

### Unit description (deep understanding)

#### Algorithm and Computer Programming

This unit has a focus on designing algorithms, representing them diagrammatically and in pseudocode, and tracing algorithms to predict output for a given input and to identify errors.

#### Software Development

In this unit, students will be required to consider the functional and non-functional requirements of a solution when defining problems. Students will follow the Software Development Life Cycle to develop modular solutions to complex problems using an object-oriented programming language.

### Key skills

Students will be engaged in the following digital technology skills throughout the Year 9 course:

- defining and decomposing real world problems in terms of functional and non-functional requirements;
- designing user experiences by evaluating alternative designs against criteria including functionality, accessibility, usability and aesthetics;
- evaluating solutions in terms of meeting needs, innovation and sustainability and potential for innovation and enterprise;

- designing and implementing modular programs with an object-oriented program;
- planning and managing digital projects; and
- using appropriate protocols when communicating and collaborating online.

### Assessment overview

The Year 9 assessment program includes digital assessments.

### Pathways

Students will progress from Year 9 Digital Solutions to Year 10 Preparation Information Processing and Technology (PIPT). The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 10. The usual progression would then be the study of Information Processing and Technology (IPT) in Year 11 and 12.

## Entrepreneurial Business

### Purpose

Entrepreneurial Business provides students with a variety of future opportunities enabling a competitive advantage in entrepreneurship across all facets of business, exclusive to business management, legal and accounting in many types of industries, both locally and internationally.

Australia needs enterprising individuals who can make informed decisions and actively participate in society and the economy as individuals and more broadly as global citizens. Students will encounter real-life experiences that address topical issues in relation to legal aspects, business management and accounting practices. It is critical that students are equipped with the knowledge, understanding and skills that will empower them in the face of real world challenges. Entrepreneurial Business inspires students to shape their entrepreneurial skills that contribute to the development of Australian and global societies.

The study of Entrepreneurial Business develops the knowledge, understanding and skills that will equip students within the business environment with traits such as effective communication, presentation skills, financial and legal knowledge specific to developing an entrepreneurial idea.

Through authentic learning opportunities, the Entrepreneurial Business curriculum fosters enterprising individuals who are able to effectively embrace change; innovate; work with others; show initiative, flexibility and leadership; use new technologies; plan, organise and manage risk; and use resources efficiently. Entrepreneurial Business will better place students

now and in their adult lives to actively and effectively participate in entrepreneurial activities, while reflecting on the effects of their decisions now and in the future.

Entrepreneurial Business provides students with opportunities to develop enterprising behaviours and capabilities that will equip them to face challenges in their lifetime.

### **Unit description (deep understanding)**

#### Business Management

- Entrepreneurship
- Business ethics
- Product development
- Marketing

#### Legal

- Business ownership structures
- Product safety/Negligence

#### Accounting

- Budgeting
- Financing a business

### **Key skills**

Students will be able to:

1. Define and decompose real-world problems.
2. Document the tasks that need to be done, their order and the resources that are needed to be used to create solutions.
3. Identify and locate relevant sources, using ICT and other methods.

4. Process and synthesise information from a range of sources for use as evidence in an entrepreneurial context.

5. Develop a product proposal of an entrepreneurial idea using evidence from a range of sources that are referenced.

6. Select and use a range of communication forms (oral, graphic, written) and digital technologies.

### **Assessment overview**

The Year 9 assessment program includes:

- a supervised written assessment task (examination – combination response)
- Entrepreneurship project with a written proposal, trade fair, presentation and reflection

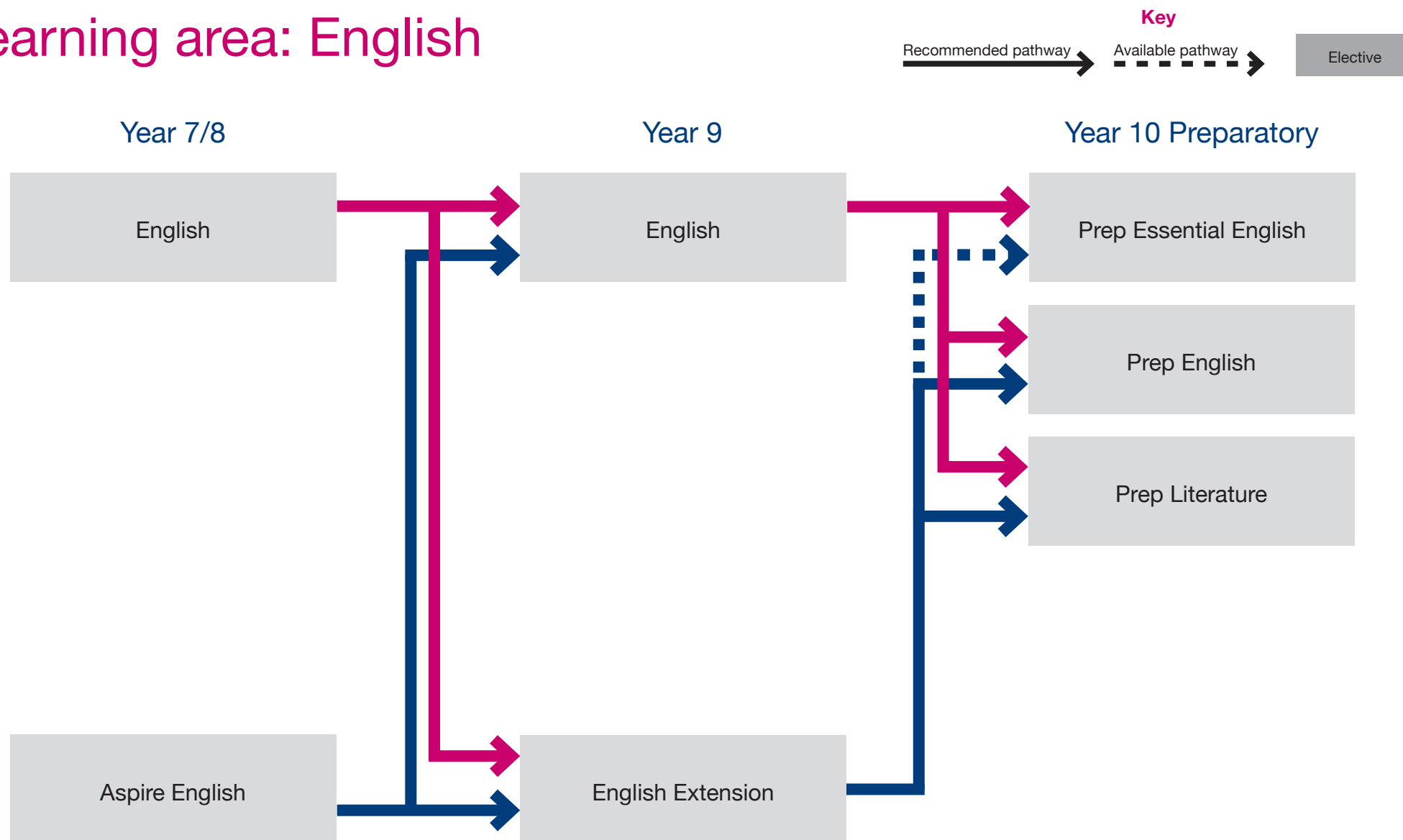
### **Pathways**

The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 10. Students can progress into Senior Accounting, Business, Legal Studies and the certificate courses.

# English



# Learning area: English



Please note that due to the change in the Senior curriculum, Junior course names are subject to change.

## English

### Purpose

English is central to everyday life. It is important for us to be able to communicate our ideas, feelings, opinions, observations and information in order to understand, critique, appreciate and participate in our local and global communities.

Year 7 will follow the Australian Curriculum for English, which develops the three interrelated strands of Language, Literature and Literacy. Together, the strands focus on developing students' knowledge, understanding and skills in listening, reading, viewing, speaking, writing and creating. English will challenge students to develop into dynamic communicators who can use language creatively, persuasively and analytically. Students will be exposed to a range of literary, media and screen texts that will be relevant to their own lives and also challenge them to expand their world-view.

### Unit description (deep understanding)

#### Thinking about English

Students listen to, read and view texts that examine learning strategies for success in English and reflect on their self-image as a learner.

#### Short Stories

Students listen to, read and view classic texts and contemporary literature to form opinions or judgments about the world they live in and the people who inhabit it.

#### Life Writing

Students read autobiographies to examine the ways that language is used by authors to selectively create point of view, and to influence the emotions and opinions of readers.

#### Introduction to Shakespeare

Students listen to, view and read a range of texts that explore Shakespearean language, particularly his poetry, and develop skills to interpret his work.

#### Perspectives of Place

Students analyse how media texts use text and language features to influence people's perspectives about their local community and those further afield.

### Key skills

- Communicate with peers, teachers, individuals, groups and community members in a range of face-to-face and online/virtual environments.
- Listen to, read, view, interpret, analyse, evaluate and perform a range of spoken, written and multimodal texts.
- Create a range of imaginative, informative and persuasive types of texts, controlling for context, purpose and audience.
- Use the conventions of written and spoken/signed English.

### Assessment overview

Students will create and respond to a range of written and spoken text types to persuade, inform and entertain.

### Pathways

Students will progress from Year 7 English to Year 8 English. The deep knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 9 English or English Extension, if prerequisites are met. The usual progression would then be the study of Senior English in Year 11 and 12. Enrichment opportunities exist for students in Year 10, 11 and 12 with the English Literature course, and the English Literature and Extension course (Year 12 only).

## English

### Purpose

English is central to everyday life. It is important for us to be able to communicate our ideas, feelings, opinions, observations and information in order to understand, critique, appreciate and participate in our local and global communities.

Year 8 will follow the Australian Curriculum for English, which develops the three interrelated strands of Language, Literature and Literacy. Together, the strands focus on developing students' knowledge, understanding and skills in listening, reading, viewing, speaking, writing and creating. English will challenge students to develop into dynamic communicators who can use language creatively, persuasively and analytically. Students will be exposed to a range of literary, media and screen texts that will be relevant to their own lives and also challenge them to expand their world-view.

### Unit description (deep understanding)

#### Teen Spirit

Students listen to, read and interpret a variety of information, news media and literary texts to explore representations of young people.

#### Shakespeare's *Macbeth*

Students listen to, view and read a range of texts that explore the different historical, social and cultural contexts of Shakespeare's times and discuss the ways these can influence how audiences interpret his stories.

#### Our Place

Students listen to, read and interpret poetry about and from Aboriginal and Torres Islander histories and cultures to explore how poets express personal perspectives of the relationship between identity and place.

#### Growing Up Australian

Students listen to, read and view a variety of autobiographical and biographical writing featuring different representations of Australia's peoples, histories and cultures to explore how language is used to reflect or challenge values.

### Key skills

- Communicate with peers, teachers, individuals, groups and community members in a range of face-to-face and online/virtual environments.
- Listen to, read, view, interpret, analyse, evaluate and perform a range of spoken, written and multimodal texts.
- Create a range of imaginative, informative and persuasive types of texts, controlling for context, purpose and audience.
- Use the conventions of written and spoken/signed English.

### Assessment overview

Students will create and respond to a range of written and spoken text types to persuade, inform and entertain.

### Pathways

Students will progress from Year 8 English to Year 9 English. The deep knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 9 English or English Extension, if prerequisites are met. The usual progression would then be the study of Senior English in Year 11 and 12. Enrichment opportunities exist for students in Year 10, 11 and 12 with the English Literature course, and the English Literature and Extension course (Year 12 only).



## English

### Purpose

English is central to everyday life. It is important for us to be able to communicate our ideas, feelings, opinions, observations and information in order to understand, critique, appreciate and participate in our local and global communities.

Year 9 will follow the Australian Curriculum for English, which develops the three interrelated strands of Language, Literature and Literacy. Together, the strands focus on developing students' knowledge, understanding and skills in listening, reading, viewing, speaking, writing and creating. English will challenge students to develop into dynamic communicators who can use language creatively, persuasively and analytically. Students will be exposed to a range of literary, media and screen texts that will be relevant to their own lives and also challenge them to expand their world-view.

### Unit description (deep understanding)

#### Imagining the Future

Students listen to, read and view a variety of speculative fiction texts to explore how literary texts can explore ideas about their own society and the future of humanity by creating a vision of the future, or an alternate world.

#### Respect

Students listen to, read and view a variety of information and literary texts featuring different representations of Aboriginal Australia's peoples, histories and cultures to identify and explain values, and evaluate the ways text creators manipulate language in order to influence audiences.

#### A Biased Affair

Students listen to, read and view news media texts (television current affair stories) to examine how different news media texts represent social and ethical issues, and offer explanations for these different representations.

#### L.O.L. Shakespearean Comedy

Students examine the history of comedy and understand the impact of social, cultural and historical contexts on different audiences. They use comprehension strategies to construct meaning about characters, setting and themes represented in a drama text, and explore how text creators use comedic conventions and devices to represent different perspectives of issues.

### Key skills

- Communicate with peers, teachers, individuals, groups and community members in a range of face-

to-face and online/virtual environments.

- Listen to, read, view, interpret, analyse, evaluate and perform a range of spoken, written and multimodal texts.
- Create a range of imaginative, informative and persuasive types of texts, controlling for context, purpose and audience.
- Use the conventions of written and spoken/signed English.

### Assessment overview

Students will respond to and create a range of written and spoken text types to persuade, inform and entertain.

### Pathways

The deep knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 10 English or Year 10 Literature. The usual progression would then be the study of Senior English, or Senior Literature in Year 11 and 12. Enrichment opportunities exist for students in the English Literature and Extension course in Year 12 only.

## English Extension

### Purpose

English is central to everyday life. It is important for us to be able to communicate our ideas, feelings, opinions, observations and information in order to understand, critique, appreciate and participate in our local and global communities.

Year 9 will follow the Australian Curriculum for English, which develops the three interrelated strands of Language, Literature and Literacy. Together, the strands focus on developing students' knowledge, understanding and skills in listening, reading, viewing, speaking, writing and creating. English will challenge students to develop into dynamic communicators who can use language creatively, persuasively and analytically. Students will be exposed to a range of literary, media and screen texts that will be relevant to their own lives and also challenge them to expand their world-view.

### Unit description (deep understanding)

#### Imagining the Future

Students listen to, read and view a variety of speculative fiction texts to explore how literary texts can explore ideas about their own society and the future of humanity by creating a vision of the future, or an alternate world. Through their novel study, students question the role of governments in regulating society versus individual free will.

### Marginalisation

Students listen to, read and view a variety of information and literary texts featuring different representations of Australia's peoples, histories and cultures to identify and explain values, and evaluate the ways text creators manipulate language in order to influence audiences. Through their novel study, students explore the impact of attitudes associated with a dominant culture.

### Issues in News Media

Students examine how different news media texts represent social and ethical issues and offer explanations for these different representations, taking into account media ownership and commercial interests. Students question the role of the media as the '4th Estate' and the increasing influence of the '5th Estate' in a democracy.

### Readings and Responses

Students develop an understanding of literary theory by engaging in a post-colonial reading of Shakespeare's *The Tempest*, examining how social, cultural and historical contexts impact on different audiences.

### **Key skills**

- Communicate with peers, teachers, individuals, groups and community members in a range of face-to-face and online/virtual environments.

- Listen to, read, view, interpret, analyse, evaluate and perform a range of spoken, written and multimodal texts.
- Create a range of imaginative, informative and persuasive types of texts, controlling for context, purpose and audience.
- Use the conventions of written and spoken/signed English.

### **Assessment overview**

Students will respond to and create a range of written and spoken text types including: novels, speculative fiction, reviews, persuasive speeches, news media texts, opinion pieces, plays and interior monologues.

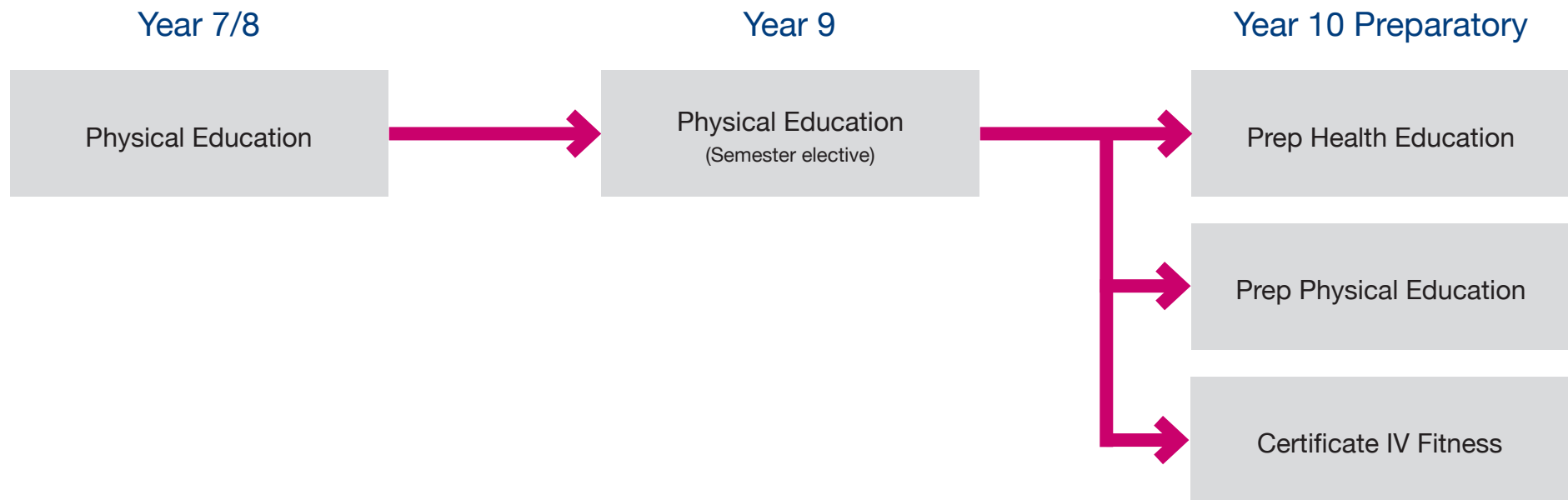
### **Pathways**

The deep knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 10 English or Year 10 Literature. The usual progression would then be the study of Senior English, or Literature in Year 11 and 12. Enrichment opportunities exist for students in the English Extension course (Year 12 only).

# Health and Physical Education



# Learning area: Health and Physical Education



Please note that due to the change in the Senior curriculum, Junior course names are subject to change.

## Health and Physical Education

### Purpose

In Health and Physical Education (HPE), students investigate and use strategies and practices that enhance their own and others' health, wellbeing and safety. Students learn about a range of help-seeking strategies that support their access to, and evaluation of, health and physical activity information and services. Students will acquire movement skills and strategies that enable them to confidently and competently participate in a range of physical activities. They will learn to apply and transfer the movement skills and concepts to a variety of physical activities.

The Year 7 Health and Physical Education course aligns with the Australian Curriculum HPE syllabus to develop knowledge and understanding and skills relating to the areas of:

- Food and Nutrition
- Health and Benefits of Physical Activity
- Games and Sports

### Unit description (deep understanding)

#### Unit 1: Nutrition — The Sugar War

This unit focuses on the impact sugar has on our health and wellbeing. Students will critically analyse their daily food intake and that of the State High community. Recommendations from a variety of organisations will be investigated and the credibility of the findings critically evaluated. Students will research the variety of factors that influence trends in food selection, the eating patterns of individuals and families and develop strategies to make healthier choices.

#### Unit 2: Health Benefits of Physical Activity

This unit investigates the influence and impact regular participation in physical activity has on individual and community health and wellbeing.

Students explore the physical benefits of participating in physical activities (including the impact on health-related and skill-related components of fitness). They will also examine how social, cultural and environmental factors influence physical activity participation. Students will investigate how sedentary behaviours impact on health and wellbeing and develop strategies to encourage physical activity in daily routines.

#### Unit 3: Invasion Games (Speedball, Football, European Handball)

This unit focuses on investigating ways to create, use and defend space through participation in a variety of invasion games. Students will analyse offensive and defensive strategies and explore how these can be

transferred to new movement challenges. Students will also develop health-related and skill-related fitness components and analyse how these components are developed through these activities.

#### Unit 4: Athletics (Triple Jump, Sprints, Javelin)

This unit focuses on developing, refining and appraising performance in a range of athletics events. Students will understand the process athletes use to learn or acquire a new skill. This includes an understanding of the learning process, an analysis of their own and others' performance using ICTs and the implementation of constructive feedback to improve performance.

### Key skills

Students will be engaged in the following health and physical education skills throughout the Year 7 course:

- researching, analysing and evaluating data, information and evidence;
- drawing conclusions, making decisions and constructing arguments;
- synthesising information from a variety of sources and perspectives;
- proposing, justifying, implementing and monitoring plans or actions to achieve goals;
- creating and performing movement sequences and applying movement concepts;
- reflecting on learning, applying new understandings and justifying future applications;
- setting personal goals;
- working effectively within a group or team; and
- solving problems in a variety of contexts.

### Assessment overview

The Year 7 Assessment program includes: Ongoing practical assessment, exams and an assignment.

### Pathways

Students will progress from Year 7 HPE to Year 8 HPE. They will then have the opportunity to select Year 9 HPE as one of their elective subjects. In Year 10, the HPE course splits into three options to cater for student interests. There are three pathways for students to choose from in the Senior School: Physical Education, Health Education and Certificate IV Fitness.

## Health and Physical Education

### Purpose

Health and Physical Education provides a foundation for students to learn how to take positive action to enhance their own and others' health and wellbeing in varied contexts and to adopt lifelong healthy, active living. Students will learn about key issues affecting the health and wellbeing of young people and their communities. They will learn how to apply problem-solving techniques to improve health. Students will acquire movement skills and strategies that enable them to confidently and competently participate in a range of physical activities.

The Year 8 Health and Physical Education course aligns with the Australian Curriculum HPE syllabus to develop knowledge and understanding and skills relating to the areas of:

- Alcohol and Other Drugs
- Relationships and Sexuality
- Life-long Physical Activities
- Games and Sports

### Unit description (deep understanding)

#### Unit 1: Alcohol and Other Drugs

This unit focuses on investigating the short and long term effects of alcohol and drug use and the associated laws. It will explore the reasons why young people choose to use or not use alcohol and propose strategies to make informed decisions. Students will examine the factors that influence people's behaviours, decisions and actions. They will also develop a range of communication and negotiation skills to combat peer pressure.

#### Unit 2: Relationships and Sexuality

This unit explores physical, social and emotional changes that occur over time and the impact these changes have on students' identities. Students will evaluate and practice strategies to manage changes and emotions associated with puberty and getting older.

#### Unit 3: Fielding and Striking Games (Softball, Cricket, Vigoro and Minor Games)

This unit focuses on developing an understanding of the tactics and strategies of striking and fielding games, as well as recognising the importance of improving the

skills and techniques in order to implement the tactics they wish to use. Students will seek to improve individual and team performance through modifications to effort, space and time.

#### Unit 4: Lifesaving

This unit focuses on developing the skills and knowledge required to save their own and others' lives. Students will learn water safety skills and develop a knowledge and understanding of how to be safe when in, on and around the water, including survival skills and rescue techniques.

### Key skills

Students will be engaged in the following health and physical education skills throughout the Year 8 course:

- researching, analysing and evaluating data, information and evidence;
- drawing conclusions, making decisions and constructing arguments;
- synthesising information from a variety of sources and perspectives;
- proposing, justifying, implementing and monitoring plans or actions to achieve goals;
- creating and performing movement sequences and applying movement concepts;
- reflecting on learning, applying new understandings and justifying future applications;
- setting personal goals;
- working effectively within a group or team; and
- solving problems in a variety of contexts.

### Assessment overview

The Year 8 Assessment program includes: Practical assessment, an analytical exposition and multimodal assignment.

### Pathways

Students will progress from Year 8 HPE and have the opportunity to select HPE as one of their elective subjects in Year 9. In Year 10, the HPE course splits into three options to cater for student interests. There are three pathways for students to choose from in the Senior School: Physical Education, Health Education and Certificate IV Fitness.



## Health and Physical Education

### Purpose

Health and Physical Education provides students with the knowledge and skills to critically analyse factors that influence their identities, relationships, decisions and behaviours. Students will analyse people's attitudes and beliefs about diversity and the effects this has on community connection and wellbeing. They will evaluate the effects of emotional responses to different situations and access, synthesise and apply health information from credible sources to propose and justify responses to health situations. Students will apply movement concepts and strategies to new and challenging practical activities. They will also identify and apply criteria to make judgments about their own and others' movement performances. Working collaboratively, they will design and apply solutions to movement challenges.

The Australian Curriculum: The focus areas to be addressed across Year 9 include: mental health and wellbeing, challenge and adventure activities, and games and sports.

### Unit description (deep understanding)

#### Unit 1: Mental Health and Wellbeing

This unit focuses on developing a range of social and emotional skills to help build and maintain resilience and psychological wellbeing so students can enhance their ability to cope with the stressors of daily life. Students will analyse coping, communication and problem-solving skills to manage changes and emotions in different situations. They will also propose and practice strategies for celebrating safely.

#### Unit 2: Exercise Physiology

This unit will investigate the concepts and skills required to improve or maintain physical activity and fitness levels; for example, target training heart-rate zones and how these zones relate to health, wellbeing and fitness. Students will also design, implement and evaluate a personalised fitness plan linked to the components of health and skill-related fitness and training methods.

#### Unit 3: Net/Wall Games (Badminton, Tennis, Volleyball, Table Tennis and Minor Games)

This unit focuses on developing an understanding of the tactics and strategies of net/wall games, as well as recognising the importance of improving the skills and techniques in order to implement the tactics they wish to use. Students will seek to improve individual and group performance by using knowledge or results feedback to perform a skill with greater accuracy or control.

#### Unit 4: Challenge and Adventure Activities — Rock Climbing

This unit is designed to challenge students physically and socially, by adapting and responding to changes in equipment to increase the complexity of a climb. Tuition will be delivered by trained instructors at a local indoor rock climbing centre. Students will be required to provide and apply teacher and peer feedback to enhance performance.

### Key skills

Students will be engaged in the following health and physical education skills throughout the Year 9 course:

- researching, analysing and evaluating data, information and evidence;
- drawing conclusions, making decisions and constructing arguments;
- synthesising information from a variety of sources and perspectives;
- proposing, justifying, implementing and monitoring plans or actions to achieve goals;
- creating and performing movement sequences and applying movement concepts;
- reflecting on learning, applying new understandings and justifying future applications;
- setting personal goals;
- working effectively within a group or team; and
- solving problems in a variety of contexts.

### Assessment overview

The Year 9 Assessment program includes: Practical assessment, analytical exposition and exam.

### Pathways

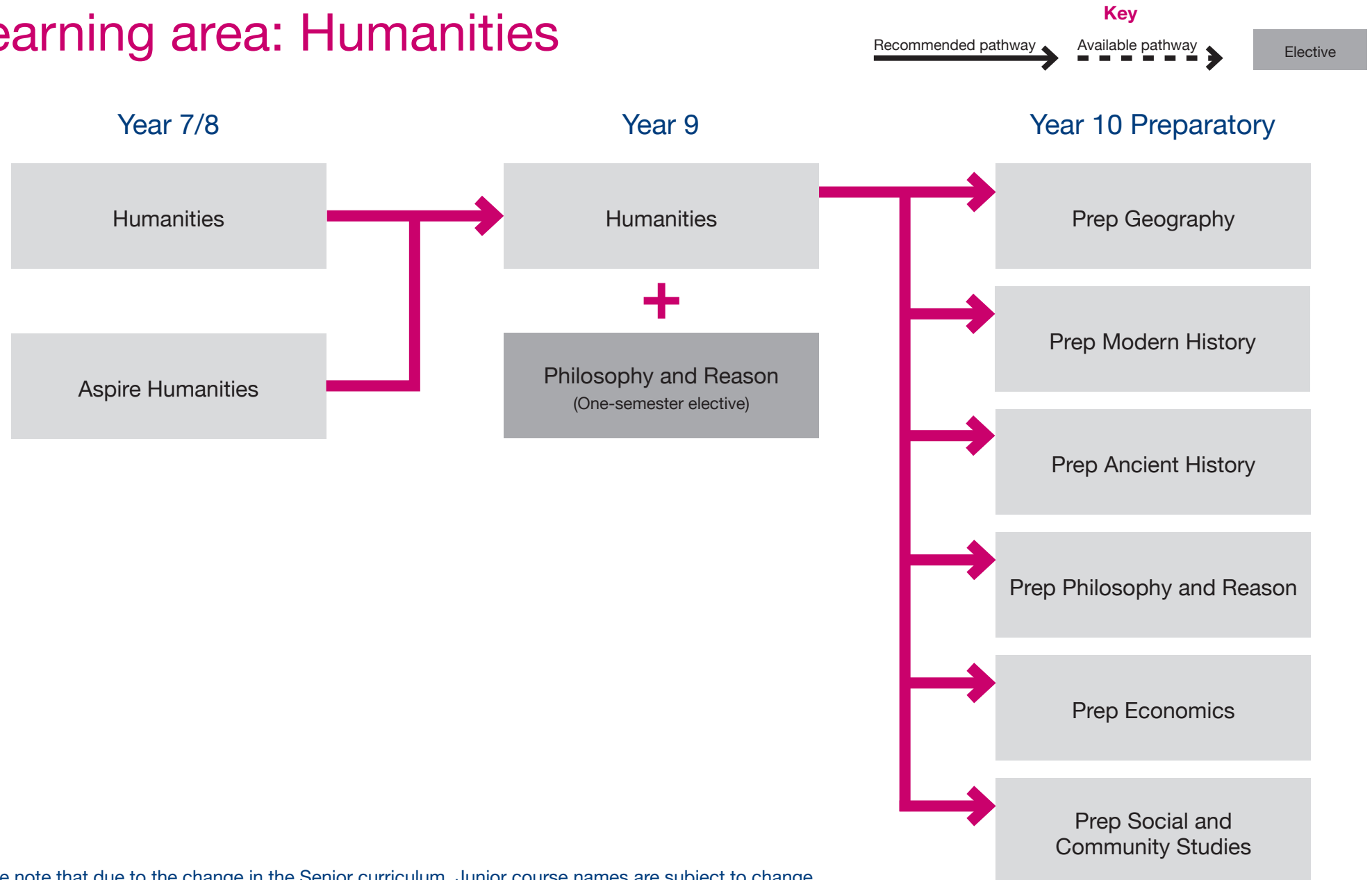
In Year 10, the HPE course splits into three options to cater for student interests. There are three pathways for students to choose from in the Senior School: Physical Education, Health Education and Certificate IV Fitness.



# Humanities



# Learning area: Humanities



Please note that due to the change in the Senior curriculum, Junior course names are subject to change.

Year 7 Humanities is a one year course that includes a semester of History and Geography, as well as elements of the Economics and Civics and Citizenship curriculum. The course also develops strong links with Year 7 English, Maths, Science and digital skills.

Through the study of Humanities, students will develop skills and strategies to become knowledge seekers and critical thinkers who are willing to take risks and challenge not only themselves, but also the conventions of thinking. They will demonstrate empathy and understand their role as active, responsible and informed global citizens. The study of Humanities allows students to develop and reflect on their own and others' views of the world.

## History

### Purpose

The Australian Curriculum: History provides opportunities to develop knowledge and understanding through key concepts, including evidence, continuity and change, cause and effect, perspectives, empathy, significance and contestability. These concepts will be applied through two in-depth research assignments that concentrate on the Ancient World.

The Year 7 History curriculum will focus on the time of the earliest human communities to the end of the medieval period, approximately 60,000 BC (BCE) – c.500 AD (CE). This is a period defined by the development of organised societies, cultural practices and expanding empires. 'Investigating the Ancient Past' is the study of the ancient world including the discoveries (the remains of the past and what we know) and the mysteries (what we do not know) about this period of history, in a range of locations. 'Ancient Rome' will be used as a case study of a great civilisation, its rise and fall, as well as the changes that occurred and the reasons for its collapse.

### Course Outline

The Year 7 History course aims to develop a student's historical knowledge and understanding, as well as skills, through the process of historical inquiry. Students will be encouraged to think critically about their past and develop skills in historical research and writing.

### Unit description (deep understanding)

#### Investigating the Ancient Past

Students will investigate how archaeologists and historians investigate the past, the nature of sources and how they are used to solve historical mysteries. Students will analyse sources and understand the change and continuity of various aspects that were developed by Ancient civilisations such as Egypt, China and Greece.

#### The Mediterranean World: Rome (c.750BCE- 500CE)

Students will investigate the physical features of Ancient Rome, its emergence and development, key characteristics of society and daily life (farming, trade, social classes, religion, entertainment, laws) and the causes of the fall of the Empire.

### Key skills

Students will develop and consolidate the following historical inquiry skills throughout the Year 7 course:

- sequence historical events, developments and periods;
- use historical terms and concepts;
- identify a range of questions to develop a historical inquiry;
- identify the origin and purpose of primary and secondary sources;
- identify and locate relevant sources;
- draw conclusions about the usefulness of sources;
- identify and describe points of view, attitudes and values in primary and secondary sources;
- develop rational and logical arguments in an historical context; and
- communicate ideas using a range of texts, including digital technologies.

### Assessment overview

The Year 7 Assessment program includes: Response to stimulus tests and a historical inquiry task.

## Geography

### Purpose

The Australian Curriculum: Geography provides students with the opportunity to develop a sense of wonder, curiosity and respect about places, people, cultures and environments throughout the world. The units enable students to think geographically by understanding and using the concepts of place, space, environment, interconnection, sustainability, scale and change when investigating the world. Specific geographical skills emphasise analysing and interpreting geographical data and information, using spatial technologies and other digital techniques, problem-solving and developing reasoned arguments based on evidence to support conclusions.

The Year 7 Geography curriculum seeks to accommodate the needs of learners through a wide exploration of the world and ideas about it. There is a focus on citizenship as students study local, national and global issues and identify actions that they could take. Units focus on environmental and human geography, through the study of water and liveability, which has

an applied focus on the management of environmental resources and their sustainability.

### **Course Outline**

The Year 7 Geography course aims to develop a student's geographical knowledge and understanding, as well as geographical inquiry and communication skills. Students will participate in fieldwork on excursions at a local level.

### **Unit description (deep understanding)**

#### Water and the World

Students will investigate water as an example of a renewable environmental resource; the many uses of water, the ways it is perceived and valued, its different forms as a resource, the ways it connects places as it moves through the environment, its varying availability in time and across space, and its scarcity. Students will examine the concept of environment and its specific hazards, through studies drawn from countries around the world.

#### Place and Liveability

Students will investigate Place and Liveability; the factors that influence liveability and how it is perceived; the idea that places provide us with the services and facilities needed to support and enhance our lives; and that spaces are planned and managed by people. Students will evaluate the liveability of their own place and investigate whether it can be improved through planning. The liveability of places is investigated using studies drawn from Australia and Europe.

### **Key skills**

Students will develop and consolidate the following geographical skills throughout the Year 7 course:

- develop geographical questions and plan a geographical inquiry;
- collect, select and record relevant geographical data and information;
- represent data in a range of forms including graphs and maps, with and without the use of spatial technologies;
- analyse geographical data to identify and explain spatial patterns, trends and relationships;
- apply geographical concepts to draw conclusions based on the analysis of data and information collected;
- present findings, arguments and ideas in a range of forms; and
- propose actions in response to geographic challenges and reflect on these.

### **Assessment overview**

The Year 7 Assessment program includes: knowledge and understanding tests, presentation of fieldwork data and community forum tasks.

## **Pathways for Year 7 Humanities**

Students will progress from Year 7 Humanities to Year 8 Humanities. The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 8. The Aspire Humanities/English program is an option for those students who are interested in extension Humanities in Year 8.

Year 8 Humanities is a one year course that includes a semester of History and Geography, as well as elements of Economics and Civics and Citizenship curriculum, where appropriate. The course also develops strong links with the Year 8 English, Maths, Science and Visual and Performing Arts curriculum.

Through the study of Humanities, students will develop skills and strategies to become knowledge seekers and critical thinkers, who analyse and evaluate sources to challenge not only themselves, but also the conventions of thinking. They will display empathy and respect towards other people and understand their role as active, responsible and informed global citizens. The study of Humanities allows students to develop and reflect on their own and others' views of the world and the misconceptions of prejudice.

## History

### Purpose

The Australian Curriculum: History introduces and consolidates historical understanding through key concepts, including evidence, continuity and change, cause and effect, perspectives, empathy, significance and contestability. These concepts will be developed through two depth studies that concentrate on the changes in the Medieval world to modernisation.

The Year 8 History curriculum provides a study of the Medieval world and the Age of Discovery. This was when major civilisations around the world came into contact with each other, resulting in many negative and positive impacts. Social, economic, religious and political beliefs were often challenged and significantly changed. It was the period when the modern world began to take shape through industrialisation and rapid change.

### Course Outline

The Year 8 History course aims to develop a student's historical knowledge and understanding, as well as skills, through the process of historical inquiry. Students will be encouraged to think critically about the past and develop skills in historical research and writing.

### Unit description (deep understanding)

The Western and Islamic World: Medieval Period (c.500-1500 CE)

Students will investigate how societies changed from the end of the ancient period to the beginning of the modern age and the key beliefs, social, cultural, economic and political features of Medieval Europe, as well as the relationships between Islam and the West

due to the Crusades. Students will then investigate the interactions of societies during the Age of Discovery and expansion of the Western world.

The Asia Pacific World: Japan Under the Shoguns (c. 794-1867)

Students will investigate how Shogunate Japan was still in a medieval feudal system, up until European contact influenced and forced them to end isolation and modernise.

### Key skills

Students will develop and consolidate the following historical inquiry skills throughout the Year 8 course:

- sequence historical events, developments and periods;
- use historical terms and concepts;
- identify a range of questions to develop a historical inquiry;
- identify the origin and purpose of primary and secondary sources;
- locate, compare, select and use evidence from a range of sources;
- draw conclusions about the usefulness of sources.
- identify and describe points of view, attitudes and values in primary and secondary sources;
- develop rational and logical arguments in an historical context; and
- communicate ideas using a range of texts, including digital technologies.

### Assessment overview

The Year 8 Assessment program includes: Short and extended written response tasks and a historical inquiry task.

## Geography

### Purpose

The Australian Curriculum: Geography provides students with the opportunity to develop a sense of wonder, curiosity and respect about places, people, cultures and environments throughout the world. The units enable students to think geographically by understanding and using the concepts of place, space, environment, interconnection, sustainability, scale and change when investigating the world.

The Year 8 Geography curriculum provides a study of geographical processes that influence the characteristics of places and explain how places are perceived and valued differently. The location and distribution of landscapes and landforms, geographical phenomena and the effects of these processes will

challenge students to develop strategies to manage the earth's hazards. This environmental geography, will lead into human geography, focussing on 'Changing Nations' and the movement of people. Spatial patterns, trends and relationships of demographics and environmental, economic and social impacts of shifting populations will be covered.

### **Course Outline**

The Year 8 Geography course aims to develop a student's geographical knowledge and understanding, as well as geographical inquiry and skills. Students will participate in fieldwork at a local level.

### **Unit description (deep understanding)**

#### Landforms and Landscapes

Students will investigate geomorphology through a study of landscapes and their landforms. This unit examines the processes that shape individual landforms, the values and meanings placed on landforms and landscapes by diverse cultures, hazards associated with landscapes, and management of landscapes. Landforms and landscapes develops students' understanding of the concept of environment and enables them to explore the significance of landscapes to people and how these are managed.

#### Changing Nations

Students will investigate the changing human geography of countries, as revealed by shifts in population distribution. The unit explores the process of urbanisation and draws on a study of a country of the Asia region to show how urbanisation changes the economies and societies of low- and middle-income countries. Students will also examine reasons for internal and external migration, including the causes of forced migration, refugees and asylum seekers.

### **Key skills**

Students will develop and consolidate the following geographical skills throughout the Year 8 course:

- develop geographical questions and plan a geographical inquiry;
- collect, select and record relevant geographical data and information;
- represent data in a range of forms including graphs and maps, with and without the use of spatial technologies;
- analyse geographical data to identify and explain spatial patterns, trends and relationships;
- apply geographical concepts to draw conclusions based on the analysis of data and information collected;
- present findings, arguments and ideas in a range of forms; and
- propose actions in response to geographic challenges and reflect on these.

### **Assessment overview**

The Year 8 Assessment program includes: knowledge and understanding tests, presentation of fieldwork data and an extended response task.

## **Pathways for Year 8 Humanities**

Students will progress from Year 8 to Year 9 Humanities. The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 9. The usual progression would then be the study of Senior Humanities subjects, including Ancient History, Modern History, Economics, Philosophy and Reason, Geography or Social and Community Studies. Year 9 Humanities will offer a 'taster' of each of these subjects, with the exception of Philosophy, which will be a semester elective.



Year 9 Humanities is a one year course that includes a semester of History studies and a semester of Geography with Economics incorporated throughout the units. Philosophy will be offered as an elective. This course has been designed to allow students to experience a variety of Humanities subjects which will be available in the senior school. The course also develops strong links with the Year 9 English, Maths, Science and Senior Humanities curriculum.

Through the study of Humanities, students will develop skills and strategies to become knowledge seekers and critical thinkers, who are willing to take risks and challenge not only themselves, but also the conventions of thinking. They will display empathy and understand their role as active, responsible and informed global citizens. The study of Humanities allows students to develop and reflect on their own and others' views of the world.

## History

### Purpose

The Australian Curriculum: History provides opportunities to develop historical understanding through key concepts, including evidence, continuity and change, cause and effect, perspectives, empathy, significance and contestability. These concepts may be investigated within a particular historical context to facilitate an understanding of the past and to provide a focus for historical inquiries.

The Year 9 History curriculum provides a study of Ancient and Modern History. The Ancient History unit will focus on extending students' knowledge and skills when analysing historical evidence, as well as investigate the beginnings of Imperialism. The Modern History segment will examine the Industrial Revolution and motives for British imperialism and colonisation. This will then lead an inquiry into the causes and effects of World War I, 1914–1918.

### Course Outline

The Year 9 History course aims to develop a student's historical knowledge and understanding, as well as skills, through the process of historical inquiry. Students will be encouraged to think critically about their past and develop skills in historical research and writing. Opportunities will be provided for students to visit the Queensland Museum, participate in incursions, as well view various media based on historical content.

### Unit description (deep understanding)

#### Imperialism and Ancient Empires

Students will investigate the origins, motives and methods of imperialism by analysing sources on

Alexander the Great and the Vikings. They will compare this to modern versions through inquiry.

#### Rapid Change and WW1 (1750-1918)

Students will examine the resources gained from Empires and the technological innovations that led to the Industrial Revolution. They will examine the short and long-term impacts of this rapid change, specifically as a driving factor for economic imperialism and the need for more colonies. Students will then investigate the causes of WWI, the nature of war and Australian experiences.

### Key skills

Students will develop and consolidate the following historical inquiry skills throughout the Year 8 course:

- use chronological sequencing to demonstrate the relationship between events and developments;
- identify and locate relevant sources, using ICT and other methods;
- analysis and use of sources;
- identify the origin, purpose and context of primary and secondary sources;
- process and synthesise information from a range of sources for use as evidence in an historical argument;
- evaluate the reliability and usefulness of primary and secondary sources;
- identify and analyse the perspectives of people from the past;
- identify and analyse different historical interpretations (including their own);
- develop texts, particularly descriptions and discussions that use evidence from a range of sources that are referenced; and
- select and use a range of communication forms (oral, graphic, written) and digital technologies.

### Assessment overview

The Year 9 Assessment program includes: Response to stimulus tests and a historical inquiry task.

## Geography

### Purpose

The Australian Curriculum: Geography provides students with the opportunity to develop a sense of wonder, curiosity and respect about places, people, cultures and environments throughout the world. Students are to think geographically by understanding and using the concepts of place, space, environment, interconnection, sustainability, scale and change when investigating selective studies of world regions and specific countries. Students will investigate the world's biomes and the important role they play in food



production. Students will examine issues within food security and solve problems of sustainability.

In the Resources, Interconnections and Development unit, students will investigate how we are connected with other people around the world. They will examine the world's resources, their allocation and distribution, as well as the negative and positive effects of this such as the disparity between developing and developed countries. Contemporary issues, events and case studies that effect human interconnections will be used to further develop their understanding of economic and geographical concepts.

### Course Outline

The Year 9 Geography course aims to develop a student's geographical knowledge and understanding, as well as geographical inquiry and skills. Students will participate in fieldwork at a local level.

### Unit description (deep understanding)

#### Biomes and Food Security

Students will extend on the concepts of Geography and spatial skills. They will investigate the biotic environment and its role in food and fibre production. This unit examines the biomes of the world, their alteration, significance and the environmental challenges of future sustainability. Students will conduct an inquiry into a food security issue and solve problems of sustainability for feeding the growing population.

#### Resources, Interconnections and Development

Students will investigate interconnections and the world's various resources. They will understand how these resources influence the economic development of countries and people around the world as well as the disparity of wealth. This unit examines the interconnections and effects of globalisation on societies, the economy and environment.

### Key skills

Students will develop and consolidate the following geographical skills throughout the Year 9 course:

- develop geographically significant questions and apply appropriate geographical methodologies and concepts;
- evaluate sources and organise relevant geographical data;
- represent multi-variable data in a range of appropriate forms;
- represent spatial distribution of geographical phenomena using spatial technologies as appropriate;
- interpret and analyse multi-variable data;

- apply geographical and economic concepts to synthesise information from various sources;
- present findings, arguments and explanations in a range of appropriate communication forms; and
- reflect on and evaluate findings of an inquiry to propose action in response to a contemporary geographical challenge.

### Assessment overview

The Year 9 Assessment program includes: Response to stimulus tests and inquiry tasks.

## Pathways for Year 9 Humanities

Students will progress from Year 9 Humanities to the Year 10 Preparation Humanities Courses. The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 10. The usual progression would then be the study of a Senior Humanities subjects, including Ancient History, Modern History, Economics, Philosophy and Reason, Geography or Social and Community Studies.

## Introduction to Philosophy

### Year 9 Elective

Year 9 Introduction to Philosophy is a semester elective course which includes topics that explore the human conditions, as well as logic and reasoning. The course will give students an introduction to Philosophy, developing the ability to think critically, write with clarity, construct a meaningful argument and apply philosophical frameworks and reason to their daily lives.

The study of Philosophy allows students to recognise the various philosophies to different political, ethical, religious and scientific positions, and to understand that decision-making requires specific modes of reasoning. Study in this area is especially useful for the application of reasoning and logic skills learned through a variety of activities and thinking strategies.

### Purpose

The Year 9 Humanities elective Introduction to Philosophy will allow students to examine their own beliefs and learn what rational thinking looks like. This will be achieved through questioning, discussions, collaboration with peers, engagement with a range of sources and investigating contemporary issues. Students will be taught the skills to justify positions in both written and verbal form, develop rational views on major issues and use logic. It will be of benefit to any student who wishes to improve their thinking skills, be critical, open-minded, have an unprejudiced approach

to the use of logical analysis and have an improved understanding of the underlying cultural, social, moral and religious structures of the world.

### **Course Outline**

Introduction to Philosophy will focus on exploring the Human Condition and Argumentation. The units will ensure that students are ready to study Philosophy and Reason in Senior. The subject also provides a framework for research and reference skills, synthesis and written communication, which are essential for all Senior Humanities subjects.

### **Deep understanding**

#### Introduction to Philosophy

Fundamental concepts, skills, knowledge and understanding of the discipline of Philosophy. Examination of own beliefs and values, as well as ways in which arguments are formed.

#### Using Logic in Philosophy

The fundamentals of arguments and applying logic.

#### Being Human

Investigation of the different philosophical frameworks for what it means to be human and to live in the contemporary world.

### **Key skills**

Students will develop and consolidate the following skills throughout the Year 9 course:

- an improved ability to think clearly, analytically and creatively;
- a critical, open-minded and unprejudiced approach to the use of logical analysis;

- an improved ability to interpret verbal information and to express themselves clearly;
- an improved understanding of cognitive and metacognitive processes (theirs and others’);
- an improved understanding of the underlying cultural, social, moral and religious structures of the world;
- organise and synthesise ideas and information to construct arguments;
- evaluate claims and arguments inherent in theories, views and ideas; and
- create responses that communicate meaning to suit purpose.

### **Assessment overview**

The Year 9 Assessment program includes: Short written responses, practical exercises, multimodals and essay responses.

## **Pathways**

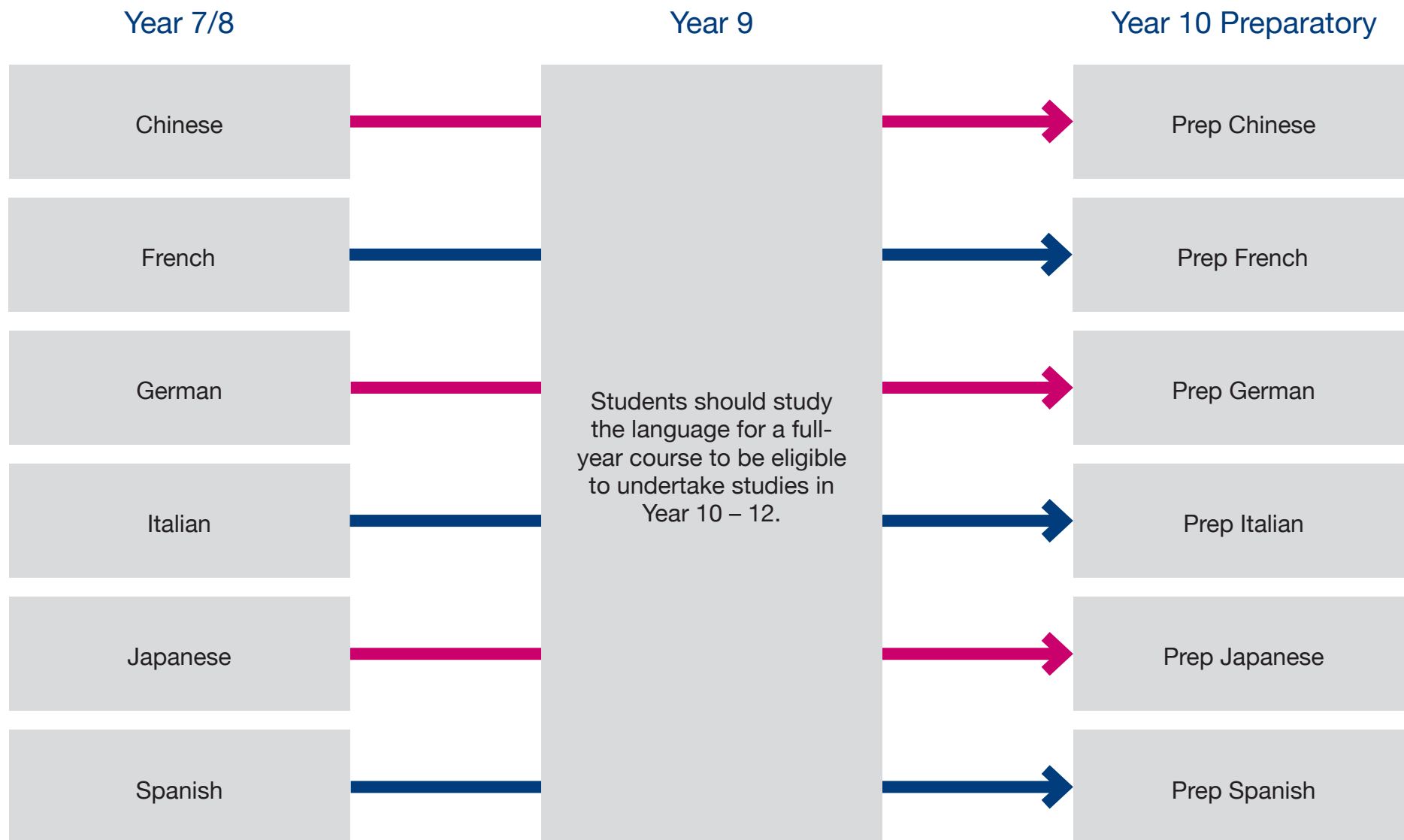
Students will progress from Year 9 Humanities to the Year 10 Preparation Humanities courses. The knowledge and skills developed as a result of the study of this course will prepare students for further development in Year 10. The usual progression would then be the study of one or more Senior Humanities subjects, including Ancient History, Modern History, Economics, Philosophy and Reason, Geography or Social and Community Studies.

A course of study in Philosophy and Reason can establish a basis for further education and employment in the fields of business, communication, ethics, journalism, law, politics, professional writing, psychology, science research or teaching.

# Languages



# Learning area: Languages



Please note that due to the change in the Senior curriculum, Junior course names are subject to change.

## Languages

### Purpose

Learning an additional language widens horizons and prepares learners for meaningful, productive lives in a culturally and linguistically diverse world. It allows students to explore how a culture is expressed through its language and how their own sense of self and cultural identity is influenced by the language that they speak. The curriculum offers learners the opportunity to begin learning a new language or to build further basic skills in the language studied at primary school.

This course is not suitable for learners who already have a level of fluency in the language gained from family background or study in the country of origin. These learners should choose to commence a new language.

At Brisbane State High School, students choose from the following languages:

- Chinese
- French
- German
- Italian
- Japanese
- Spanish

### Unit description (deep understanding)

Learning another language involves learning how to use the language to communicate with others as well as learning how the language works as a system of communication. Learners will be engaged in a range of language tasks which reflect real life purpose and which require them to comprehend written and spoken language and to compose written and spoken language. They will understand that a language has a system of grammar which is needed to structure communication

for comprehension and compare the structure of English with that of the language being learned. They will understand that the words used in another language are shaped by cultural requirements and cultural understandings.

Learners will use language to communicate about a range of topics such as:

- Greetings
- Personal identity
- Family
- Places and nationality
- Numbers
- Holidays, festivals and celebrations

### Key skills

- Communicating — speaking in the target language.
- Understanding — reading and listening to the target language.
- Creative thinking and problem-solving using their knowledge and language skills to solve communication needs.

### Assessment overview

Learners' language development will be assessed by tasks requiring comprehension of language (listening and reading) with responses in English and composing (speaking and writing) in the language.

### Pathways

The language selected in Year 7 will be studied for one semester in Year 7 and one semester in Year 8 and 9. Students who are considering or intending to study a language in the Senior phase of schooling (Year 10 to 12) should also choose to do an extra semester of language in Year 9, Semester 2.

## Languages

### Purpose

Learning an additional language widens horizons and prepares learners for meaningful, productive lives in a culturally and linguistically diverse world. It allows students to explore how a culture is expressed through its language and how their own sense of self and cultural identity is influenced by the language that they speak. The curriculum offers learners the opportunity to continue developing their language skills and proficiency in using the language to express their own ideas when interacting with their peers and others.

This course is not suitable for learners who already have a level of fluency in the language gained from family background or study in the country of origin. These learners should choose to commence a new language.

At Brisbane State High School, students choose from the following languages:

- Chinese
- French
- German
- Italian
- Japanese
- Spanish

### Unit description (deep understanding)

Learning another language involves learning how to use the language to communicate with others as well as learning how the language works as a system of communication. Learners will be engaged in a range of language tasks which reflect real life purpose and which require them to comprehend written and spoken language and to compose written and spoken language. They will understand that a language has a system of

grammar which is needed to structure communication for comprehension and compare the structure of English with that of the language being learned. They will understand that the words used in another language are shaped by cultural requirements and cultural understandings.

Learners will use language to communicate about a range of topics such as:

- Home and school
- Places and nationalities
- Sports, pastimes and hobbies
- Food and drink
- Holidays, festivals and celebrations

### Key skills

- Communicating — speaking in the target language.
- Understanding — reading and listening to the target language.
- Creative thinking and problem-solving using their knowledge and language skills to solve communication needs.

### Assessment overview

Learners' language development will be assessed by tasks requiring comprehension of language (listening and reading) with responses in English and composing (speaking and writing) in the language.

### Pathways

The language selected in Year 7 will continue to be studied for one semester in Year 8 and one semester in Year 9. Students who are considering or intending to study a language in the Senior phase of schooling (Year 10 to 12) should also choose to do an extra semester of language in Year 9, Semester 2.

## Languages — Semester 1

### Purpose

Learning an additional language widens horizons and prepares learners for meaningful, productive lives in a culturally and linguistically diverse society and world. It allows students to explore how a culture is expressed through its language and how their own sense of self and cultural identity is influenced by the language that they speak. The curriculum offers learners the opportunity to continue developing their language skills and proficiency in using the language to express their own ideas when interacting with their peers and others.

This course is not suitable for learners who already have a level of fluency in the language gained from family background or study in the country of origin. These learners should choose to commence a new language.

At Brisbane State High School, students choose from the following languages:

- Chinese
- French
- German
- Italian
- Japanese
- Spanish

### Unit description (deep understanding)

Learning another language involves learning how to use the language to communicate with others as well as learning how the language works as a system of communication. Learners will be engaged in a range of language tasks which reflect real life purpose and which require them to comprehend written and spoken language and to compose written and spoken language. They will understand that a language has a system of grammar which is needed to structure communication for comprehension and compare the structure of English with that of the language being learned. They will understand that the words used in another language are shaped by cultural requirements and cultural understandings.

Learners will use language to communicate about a range of topics such as:

- Family and friends, describing people
- Daily activities, meals, shopping, sport
- Going places and transport
- Holidays, festivals and celebrations

### Key skills

- Communicating — speaking in the target language.
- Understanding — reading and listening to the target language.

- Creative thinking and problem-solving using their knowledge and language skills to solve communication needs.

### Assessment overview

Learners' language development will be assessed by tasks requiring comprehension of language (listening and reading) with responses in English and composing (speaking and writing) in the language.

### Pathways

The language selected in Year 7 and continued for one semester in Year 8 will continue to be studied for one semester in Year 9. Students who are considering or intending to study a language in the Senior phase of schooling (Year 10 to 12) should also choose to do an extra semester of language in Year 9, Semester 2.

## Languages — Semester 2

### Purpose

Learning an additional language widens horizons and prepares learners for meaningful, productive lives in a culturally and linguistically diverse world. It allows students to explore how a culture is expressed through its language and how their own sense of self and cultural identity is influenced by the language that they speak. The curriculum offers learners the opportunity to continue developing their language skills and proficiency in using the language to express their own ideas when interacting with their peers and others.

At Brisbane State High School, students choose from the following languages:

- Chinese
- French
- German
- Italian
- Japanese
- Spanish

### Unit description (deep understanding)

Learning another language involves learning how to use the language to communicate with others as well as learning how the language works as a system of communication. Learners will be engaged in a range of language tasks which reflect real life purpose and which require them to comprehend written and spoken language and to compose written and spoken language. They will understand that a language has a system of grammar which is needed to structure communication for comprehension and compare the structure of English with that of the language being learned. They will understand that the words used in another language



are shaped by cultural requirements and cultural understandings.

Learners will use language to communicate about a range of topics such as:

- Daily routines, weekend activities, household tasks
- Holidays and travel
- Pastimes and interests, cinema and music
- Shopping and eating
- Occupations and plans
- Holidays, festivals and celebrations

### **Key skills**

- Communicating – speaking in the target language.
- Understanding – reading and listening to the target language.
- Creative thinking and problem-solving using their knowledge and language skills to solve communication needs.

### **Assessment overview**

Learners' language development will be assessed by tasks requiring comprehension of language (listening and reading) with responses in English and composing (speaking and writing) in the language.

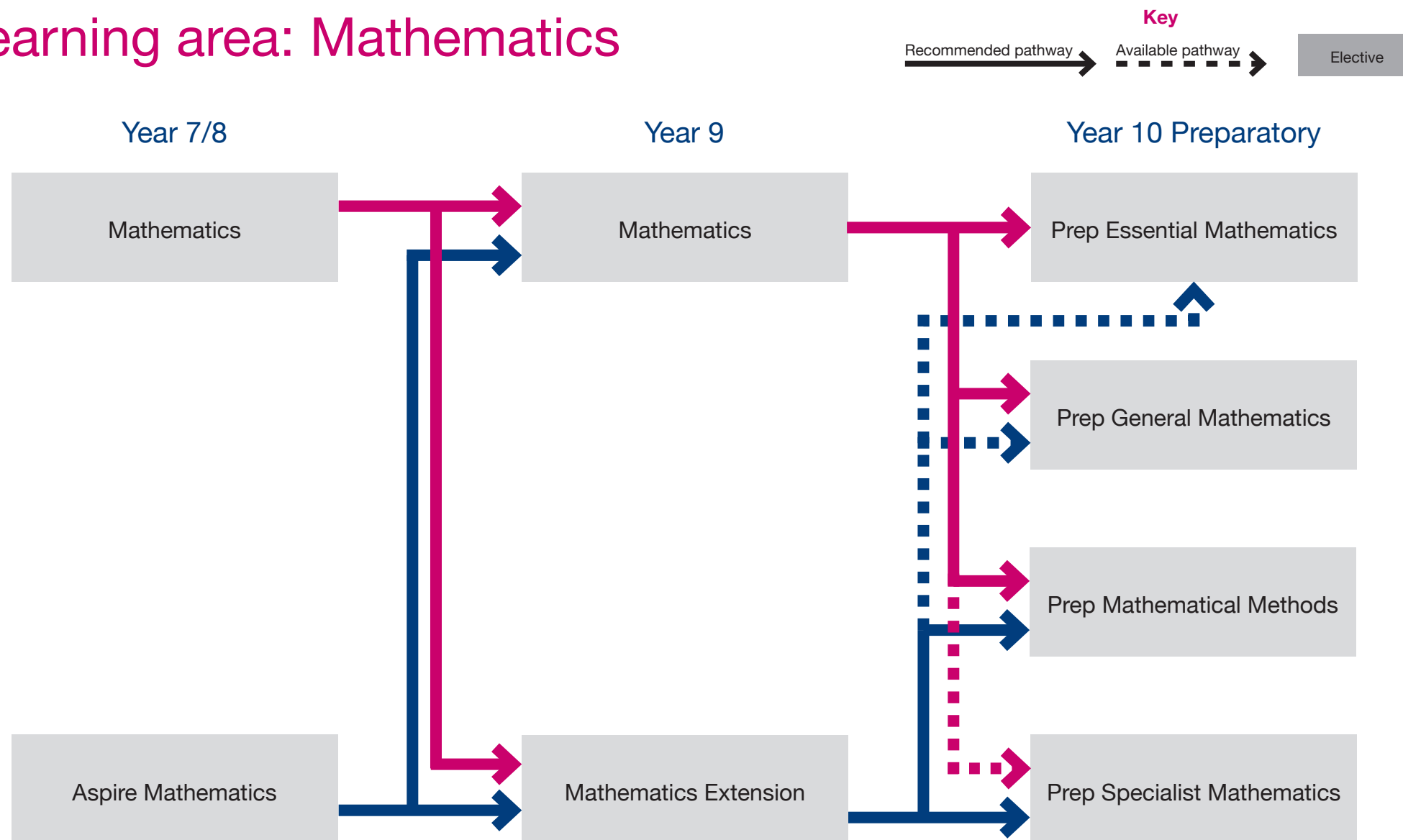
### **Pathways**

Semester 2 in Year 9 is an essential subject for students who are considering or intending to study a language in the Senior phase of schooling (Year 10 to 12). Students who have a background knowledge of a language taught at school through family or other study, and who wish to take the language for Senior study, should consult the Head of Languages to determine the appropriate level to enter the language course.

# Mathematics



# Learning area: Mathematics



Please note that due to the change in the Senior curriculum, Junior course names are subject to change.

## Mathematics

### Purpose

Through the study of Mathematics at Brisbane State High School, students will be provided with opportunities to:

- become confident, creative users and communicators of Mathematics;
- be able to investigate, represent and interpret situations in their personal and work lives and as active citizens;
- develop an increasingly sophisticated understanding of mathematical concepts and fluency with processes, and be able to pose and solve problems and reason in Number and Algebra, Measurement and Geometry, and Statistics and Probability;
- recognise connections between the areas of Mathematics and other disciplines;
- appreciate Mathematics as an accessible and enjoyable discipline to study.

### Course Outline

The Year 7 Mathematics course seeks to support students to develop a solid foundation of knowledge of numeracy. Through the Australian Curriculum: Mathematics, the construction units of work is spiralling in nature and as such students will engage with strands on a number of occasions throughout the year at increasing levels of complexity.

### Unit description (deep understanding)

#### Number and Algebra

This unit focuses on developing Number and Algebra together, as each enriches the study of the other. Students apply number sense and strategies for counting and representing numbers. They explore the magnitude and properties of numbers. They apply a range of strategies for computation and understand the connections between operations. They recognise patterns and understand the concepts of variable and function. They build on their understanding of the number system to describe relationships and formulate generalisations. They recognise equivalence and solve equations and inequalities. They apply their number and algebra skills to conduct investigations, solve problems and communicate their reasoning.

#### Measurement and Geometry

This unit focuses on developing Measurement and Geometry together. This emphasises their relationship to each other and enhances their practical relevance. Students develop an increasingly sophisticated understanding of size, shape, relative position and

movement of two-dimensional figures in the plane and three-dimensional objects in space. They investigate properties and apply their understanding of them to define, compare and construct figures and objects. They learn to develop geometric arguments. They make meaningful measurements of quantities, choosing appropriate metric units of measurement. They build an understanding of the connections between units and calculate derived measures such as area, speed and density.

#### Statistics and Probability

This unit focuses on initially developing Statistics and Probability in parallel, progressively building the links between them. Students recognise and analyse data and draw inferences. They represent, summarise and interpret data and undertake purposeful investigations involving the collection and interpretation of data. They assess likelihood and assign probabilities using experimental and theoretical approaches. They develop an increasingly sophisticated ability to critically evaluate chance and data concepts and make reasoned judgements and decisions, as well as building skills to critically evaluate statistical information and develop intuitions about data.

### Key skills

Students will be engaged in the following Numeracy Skills throughout the Year 7 Mathematics course:

- Solve problems involving the comparison, addition and subtraction of integers;
- Make connections between whole numbers and index notation including the relationship between perfect squares and square roots;
- Interpret and solve simple linear representations and model authentic information;
- Compare the cost of items to make financial decisions;
- Solve problems involving percentages and all four operations with fractions and decimals;
- Use fractions, decimals and percentages, and their equivalences;
- Express one quantity as a fraction/percentage of another;
- Describe different views of three-dimensional objects;
- Assign ordered pairs to given points on the Cartesian plane;
- Represent transformations in the Cartesian plane;
- Solve simple numerical problems involving angles formed by a transversal crossing two parallel lines;
- Use formulas for the area and perimeter of rectangles and calculate volumes of rectangular prisms;

- Classify triangles and quadrilaterals;
- Name the types of angles formed by a transversal crossing parallel lines;
- Determine the sample space for simple experiments with equally likely outcomes and assign probabilities to those outcomes;
- Identify issues involving the collection of continuous data;
- Calculate mean, mode, median and range for data sets;
- Describe the relationship between the median and mean in data displays;
- Construct stem-and-leaf plots and dot-plots.

### **Assessment overview**

The Year 7 Mathematics assessment course includes:

- Supervised written assessment tasks;
- Written assignments.

### **Pathways**

Year 7 Mathematics is the foundation of the Junior School Mathematics course. Progression through Year 7, 8 and 9 Mathematics will build on and extend the core skills of this subject. Students who achieve the prerequisites may apply to study Mathematics Extension in Year 9. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Mathematics subjects which continue through Year 11 and 12.

## Mathematics

### Purpose

Through the study of Mathematics at Brisbane State High School, students will be provided with opportunities to:

- become confident, creative users and communicators of Mathematics.
- be able to investigate, represent and interpret situations in their personal and work lives and as active citizens.
- develop an increasingly sophisticated understanding of mathematical concepts and fluency with processes, and be able to pose and solve problems and reason in Number and Algebra, Measurement and Geometry, and Statistics and Probability.
- recognise connections between the areas of Mathematics and other disciplines.
- appreciate Mathematics as an accessible and enjoyable discipline to study.

### Course Outline

The Year 8 Mathematics course seeks to support students to continue to develop a solid foundation of knowledge of numeracy. Through the Australian Curriculum: Mathematics, the construction units of work is spiralling in nature and as such students will engage with strands on a number of occasions throughout the year at increasing levels of complexity.

### Unit description (deep understanding)

#### Number and Algebra

This unit focuses on developing Number and Algebra together, as each enriches the study of the other. Students apply number sense and strategies for counting and representing numbers. They explore the magnitude and properties of numbers. They apply a range of strategies for computation and understand the connections between operations. They recognise patterns and understand the concepts of variable and function. They build on their understanding of the number system to describe relationships and formulate generalisations. They recognise equivalence and solve equations and inequalities. They apply their number and algebra skills to conduct investigations, solve problems and communicate their reasoning.

#### Measurement and Geometry

This unit focuses on developing Measurement and Geometry together to emphasise their relationship to each other, enhancing their practical relevance. Students develop an increasingly sophisticated understanding of size, shape, relative position and movement of two-

dimensional figures in the plane and three-dimensional objects in space. They investigate properties and apply their understanding of them to define, compare and construct figures and objects. They learn to develop geometric arguments. They make meaningful measurements of quantities, choosing appropriate metric units of measurement. They build an understanding of the connections between units and calculate derived measures such as area, speed and density.

#### Statistics and Probability

This unit focuses on initially developing Statistics and Probability in parallel and the curriculum then progressively builds the links between them. Students recognise and analyse data and draw inferences. They represent, summarise and interpret data and undertake purposeful investigations involving the collection and interpretation of data. They assess likelihood and assign probabilities using experimental and theoretical approaches. They develop an increasingly sophisticated ability to critically evaluate chance and data concepts and make reasoned judgements and decisions, as well as building skills to critically evaluate statistical information and develop intuitions about data.

### Key skills

Students will be engaged in the following Numeracy Skills throughout the Year 8 Mathematics course:

- Solve everyday problems involving rates, ratios and percentages;
- Recognise index laws and apply them to whole numbers;
- Describe rational and irrational numbers;
- Solve problems involving profit and loss;
- They make connections between expanding and factorising algebraic expressions;
- Use efficient mental and written strategies to carry out the four operations with integers;
- Simplify a variety of algebraic expressions;
- Solve linear equations and graph linear relationships on the Cartesian plane;
- Solve problems relating to the volume of prisms;
- Make sense of time duration in real applications;
- Identify conditions for the congruence of triangles and deduce the properties of quadrilaterals;
- Convert between units of measurement for area and volume;
- Determine perimeter and area of parallelograms, rhombuses and kites;
- Name the features of circles and calculate the areas and circumferences of circles;
- Model authentic situations with two-way tables and Venn diagrams;

- Use appropriate language to describe events and experiments;
- Explain issues related to the collection of data and the effect of outliers on means and medians in that data;
- Determine complementary events;
- Calculate the sum of probabilities.

### **Assessment overview**

The Year 8 Mathematics assessment course includes:

- Supervised written assessment tasks;
- Written assignments.

### **Pathways**

Students in Year 8 Mathematics continue to develop a strong foundation in the Junior School Mathematics course. Progression through Year 9 Mathematics will build on and extend the core skills of this subject. Students who achieve the prerequisites may apply to study Mathematics Extension in Year 9. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Mathematics subjects which continue through Year 11 and 12.



## Mathematics

### Purpose

Through the study of Mathematics at Brisbane State High School, students will be provided with opportunities to:

- become confident, creative users and communicators of Mathematics.
- be able to investigate, represent and interpret situations in their personal and work lives and as active citizens.
- develop an increasingly sophisticated understanding of mathematical concepts and fluency with processes, and be able to pose and solve problems and reason in Number and Algebra, Measurement and Geometry, and Statistics and Probability.
- recognise connections between the areas of Mathematics and other disciplines.
- appreciate Mathematics as an accessible and enjoyable discipline to study.

### Course Outline

The Year 9 Mathematics course seeks to support students to develop a solid foundation of knowledge of numeracy. Through the Australian Curriculum: Mathematics, the construction units of work is spiralling in nature and as such students will engage with strands on a number of occasions throughout the year at increasing levels of complexity.

### Unit description (deep understanding)

#### Number and Algebra

This unit focuses on developing Number and Algebra together, as each enriches the study of the other. Students apply number sense and strategies for counting and representing numbers. They explore the magnitude and properties of numbers. They apply a range of strategies for computation and understand the connections between operations. They recognise patterns and understand the concepts of variable and function. They build on their understanding of the number system to describe relationships and formulate generalisations. They recognise equivalence and solve equations and inequalities. They apply their number and algebra skills to conduct investigations, solve problems and communicate their reasoning.

#### Measurement and Geometry

This unit focuses on developing Measurement and Geometry together to emphasise their relationship to each other, enhancing their practical relevance. Students develop an increasingly sophisticated understanding of size, shape, relative position and

movement of two-dimensional figures in the plane and three-dimensional objects in space. They investigate properties and apply their understanding of them to define, compare and construct figures and objects. They learn to develop geometric arguments. They make meaningful measurements of quantities, choosing appropriate metric units of measurement. They build an understanding of the connections between units and calculate derived measures such as area, speed and density.

#### Statistics and Probability

This unit focuses on initially developing Statistics and Probability in parallel and the curriculum then progressively builds the links between them. Students recognise and analyse data and draw inferences. They represent, summarise and interpret data and undertake purposeful investigations involving the collection and interpretation of data. They assess likelihood and assign probabilities using experimental and theoretical approaches. They develop an increasingly sophisticated ability to critically evaluate chance and data concepts and make reasoned judgements and decisions, as well as building skills to critically evaluate statistical information and develop intuitions about data.

### Key skills

Students will be engaged in the following Numeracy Skills throughout the Year 9 Mathematics course:

- Solve problems involving direct proportion;
- Explore the relationship between graphs and equations corresponding to simple rate problems;
- Apply index laws to numerical expressions with integer indices;
- Express numbers in scientific notation;
- Solve problems involving simple interest;
- Extend and apply the index laws to variables, using positive integer indices and the zero index;
- Apply the distributive law to the expansion of algebraic expressions, including binomials, and collect like terms where appropriate;
- Find the distance between two points located on the Cartesian plane using a range of strategies, including graphing software;
- Find the midpoint and gradient of a line segment (interval) on the Cartesian plane using a range of strategies, including graphing software;
- Sketch linear graphs using the coordinates of two points and solve linear equations;
- Graph simple non-linear relations with and without the use of digital technologies and solve simple related equations;
- Calculate areas of composite shapes;

- Calculate the surface area and volume of cylinders and solve related problems;
- Solve problems involving the surface area and volume of right prisms;
- Investigate very small and very large time scales and intervals;
- Use the enlargement transformation to explain similarity and develop the conditions for triangles to be similar;
- Solve problems using ratio and scale factors in similar figures;
- Investigate Pythagoras' Theorem and its application to solving simple problems involving right angled triangles;
- Use similarity to investigate the constancy of the sine, cosine and tangent ratios for a given angle in right-angled triangles;
- Apply trigonometry to solve right-angled triangle problems;
- List all outcomes for two-step chance experiments, both with and without replacement using tree diagrams or arrays;
- Assign probabilities to outcomes and determine probabilities for events;
- Calculate relative frequencies from given or collected data to estimate probabilities of events involving 'and' or 'or';
- Investigate reports of surveys in digital media and elsewhere for information on how data were obtained to estimate population means and medians;
- Identify everyday questions and issues involving at least one numerical and at least one categorical variable, and collect data directly and from secondary sources;
- Construct back-to-back stem-and-leaf plots and histograms and describe data, using terms including 'skewed', 'symmetric' and 'bi modal';
- Compare data displays using mean, median and range to describe and interpret numerical data sets in terms of location (centre) and spread.

### Assessment overview

The Year 9 Mathematics assessment course includes:

- Supervised written assessment tasks;
- Written assignments.

### Pathways

Year 9 Mathematics is the completion of the Junior School Mathematics course. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Mathematics subjects which continue through Year 11 and 12.

## Mathematics Extension

### Purpose

Mathematics Extension is an enrichment course that provides students with an opportunity to pursue and develop their interests and skills in the mathematical strands of: Number and Algebra, Measurement and Geometry, and Statistics and Probability. The course explores topics with greater breadth and in more depth than is normally required and thus enables learner to develop an appreciation of the wider context area of Mathematics.

The learning opportunities in the Mathematics Extension course includes, where possible: greater choice; more opportunity for both independence and collaboration; and encouragement and support to engage in externally offered extension opportunities.

Through the study of Mathematics Extension at Brisbane State High School, students will be provided with opportunities to:

- become confident, creative users and communicators of Mathematics.
- be able to investigate, represent and interpret situations in their personal and work lives and as active citizens.
- develop an increasingly sophisticated understanding of mathematical concepts and fluency with processes, and be able to pose and solve problems and reason in Number and Algebra, Measurement and Geometry, and Statistics and Probability.
- recognise connections between the areas of Mathematics and other disciplines.
- appreciate Mathematics as an accessible and enjoyable discipline to study.

### Course Outline

The Year 9 Mathematics Extension course seeks to support students to develop a solid foundation of knowledge of numeracy. Through the Australian Curriculum: Mathematics, the construction units of work is spiralling in nature and as such students will engage with strands on a number of occasions throughout the year at increasing levels of complexity.

### Unit Description (Deep Understanding)

#### Number and Algebra

This unit focuses on developing Number and Algebra together, as each enriches the study of the other. Students apply number sense and strategies for counting and representing numbers. They explore the magnitude and properties of numbers. They apply a range of strategies for computation and understand the connections between operations. They recognise patterns and understand the concepts of variable

and function. They build on their understanding of the number system to describe relationships and formulate generalisations. They recognise equivalence and solve equations and inequalities. They apply their number and algebra skills to conduct investigations, solve problems and communicate their reasoning.

### Measurement and Geometry

This unit focuses on developing Measurement and Geometry together to emphasise their relationship to each other, enhancing their practical relevance. Students develop an increasingly sophisticated understanding of size, shape, relative position and movement of two-dimensional figures in the plane and three-dimensional objects in space. They investigate properties and apply their understanding of them to define, compare and construct figures and objects. They learn to develop geometric arguments. They make meaningful measurements of quantities, choosing appropriate metric units of measurement. They build an understanding of the connections between units and calculate derived measures such as area, speed and density.

### Statistics and Probability

This unit focuses on initially developing Statistics and Probability in parallel and the curriculum then progressively builds the links between them. Students recognise and analyse data and draw inferences. They represent, summarise and interpret data and undertake purposeful investigations involving the collection and interpretation of data. They assess likelihood and assign probabilities using experimental and theoretical approaches. They develop an increasingly sophisticated ability to critically evaluate chance and data concepts and make reasoned judgements and decisions, as well as building skills to critically evaluate statistical information and develop intuitions about data.

### **Key Skills**

Students will be engaged in the following Numeracy Skills throughout the Year 9 Mathematics course:

- Solve problems involving direct proportion;
- Explore the relationship between graphs and equations corresponding to simple rate problems;
- Apply index laws to numerical expressions with integer indices;
- Express numbers in scientific notation;
- Solve problems involving simple interest;
- Extend and apply the index laws to variables, using positive integer indices and the zero index;
- Apply the distributive law to the expansion of algebraic expressions, including binomials, and collect like terms where appropriate;

- Find the distance between two points located on the Cartesian plane using a range of strategies, including graphing software;
- Find the midpoint and gradient of a line segment (interval) on the Cartesian plane using a range of strategies, including graphing software;
- Sketch linear graphs using the coordinates of two points and solve linear equations;
- Graph simple non-linear relations with and without the use of digital technologies and solve simple related equations;
- Calculate areas of composite shapes;
- Calculate the surface area and volume of cylinders and solve related problems;
- Solve problems involving the surface area and volume of right prisms;
- Investigate very small and very large time scales and intervals;
- Use the enlargement transformation to explain similarity and develop the conditions for triangles to be similar;
- Solve problems using ratio and scale factors in similar figures;
- Investigate Pythagoras' Theorem and its application to solving simple problems involving right angled triangles;
- Use similarity to investigate the constancy of the sine, cosine and tangent ratios for a given angle in right-angled triangles;
- Apply trigonometry to solve right-angled triangle problems;
- List all outcomes for two-step chance experiments, both with and without replacement using tree diagrams or arrays;
- Assign probabilities to outcomes and determine probabilities for events;
- Calculate relative frequencies from given or collected data to estimate probabilities of events involving 'and' or 'or';
- Investigate reports of surveys in digital media and elsewhere for information on how data were obtained to estimate population means and medians;
- Identify everyday questions and issues involving at least one numerical and at least one categorical variable, and collect data directly and from secondary sources;
- Construct back-to-back stem-and-leaf plots and histograms and describe data, using terms including 'skewed', 'symmetric' and 'bi modal';
- Compare data displays using mean, median and range to describe and interpret numerical data sets in terms of location (centre) and spread.

**Assessment Overview**

The Year 9 Mathematics Extension assessment course includes:

- Supervised written assessment tasks;
- Written assignments.

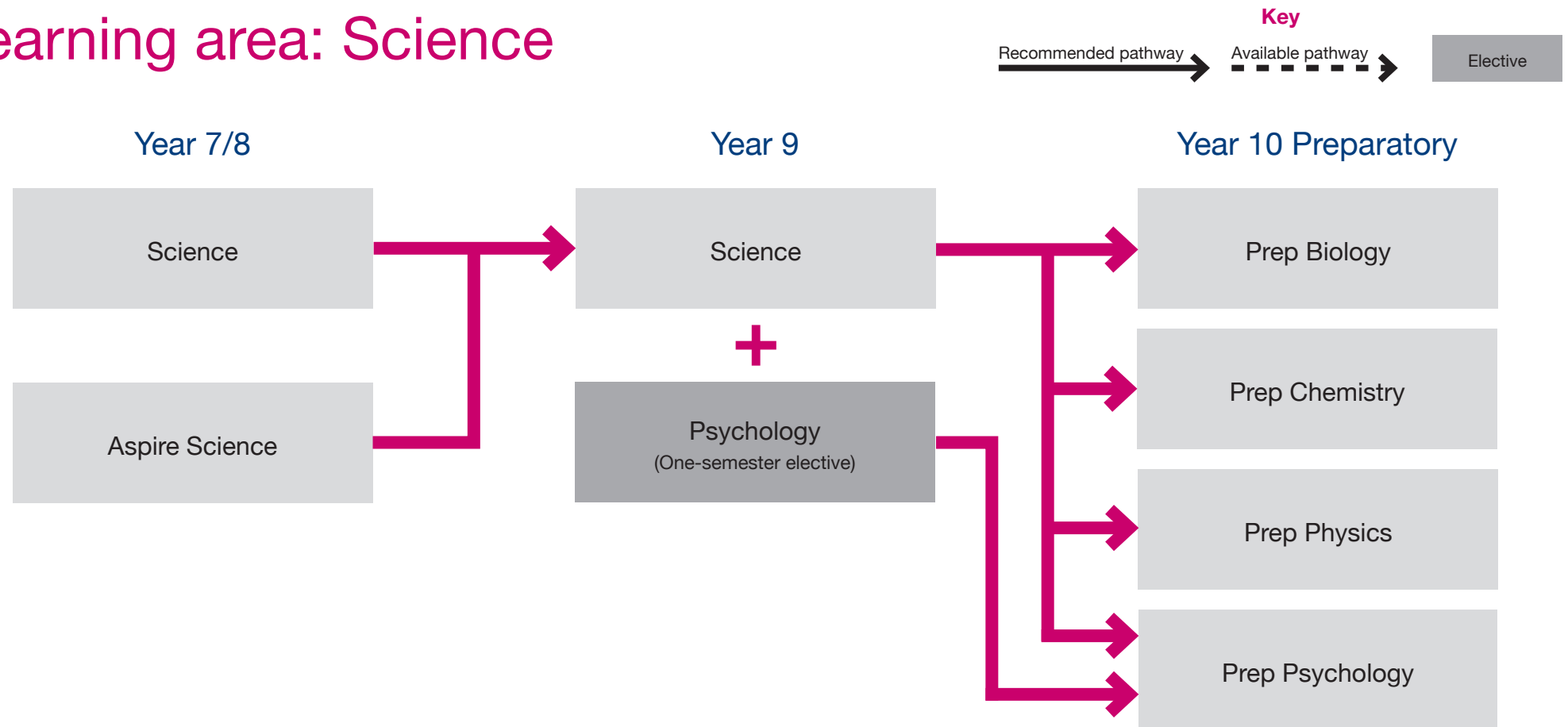
**Pathways**

Year 9 Mathematics Extension is the completion of the Junior School Mathematics course. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Mathematics subjects which continue through Year 11 and 12.

# Science



# Learning area: Science



Please note that due to the change in the Senior curriculum, Junior course names are subject to change.

## Science

### Purpose

The study of Science provides students with opportunities to develop:

- an interest in Science as a means of expanding their curiosity and willingness to explore, ask questions about and speculate on the changing world in which they live.
- an understanding of the nature of scientific inquiry and the ability to use a range of scientific inquiry methods, including questioning, planning and conducting experiments and investigations based on ethical principles, collecting and analysing data, evaluating results, and drawing critical, evidence-based conclusions.
- an ability to communicate scientific understanding and findings to a range of audiences, to justify ideas on the basis of evidence, and to evaluate and debate scientific arguments and claims.
- an ability to solve problems and make informed, evidence-based decisions about current and future applications of Science while taking into account ethical and social implications of decisions.

### Course Outline

Through the Australian Curriculum: Science, students develop a solid foundation of knowledge of the Biological, Chemical, Physical, Earth and Space Sciences. They have opportunities to select and integrate the scientific knowledge and methods needed to explain and predict phenomena, to apply that understanding to new situations and events, and to appreciate the dynamic nature of science knowledge.

### Unit Description (Deep Understanding)

#### Biological Sciences

This unit focuses on the enduring understanding that ‘systems of classification are based on shared physical characteristics’ (Carl Linnaeus). Students will describe the interactions between organisms via food chains and food webs and consider how human activity can affect these interactions.

#### Chemical Sciences

This unit focuses on engaging students in exploring the three states of matter. They investigate how water appears in the three states of matter and the many different forms it takes on Earth. Students will investigate the important resource of water, utilising a range of separation techniques.

#### Physical Sciences

This unit focuses on engaging students in the investigation of the enduring understanding that ‘for every action there is an equal or opposite reaction’ (Isaac Newton). Students will investigate the changes caused to an object’s motion when unbalanced forces are applied.

#### Earth and Space Sciences

This unit focuses on engaging students in the investigation of renewable and non-renewable resources. Students will consider how science and technology contributes to finding solutions to a range of contemporary issues regarding renewable and non-renewable resources.

### Key Skills

Students will be engaged in the following Science Inquiry Skills throughout the Year 7 Science course:

- identify questions and problems;
- make predictions based on scientific knowledge;
- plan and conduct investigations and fair tests;
- conduct field work and experiences;
- collect data appropriate to the task;
- use a range of representations;
- use digital technologies;
- summarise data;
- identify relationships and draw conclusions;
- evaluate data and identify improvements in methods;
- evaluate claims; and
- communicate ideas, findings and solutions using scientific language and representations.

### Assessment Overview

The Year 7 Science assessment course includes:

- Supervised written assessment tasks;
- Practical experimental reports;
- Multimodal presentations.

### Pathways

Year 7 Science is the foundation of the Junior School Science course. Progression through Year 7, 8 and 9 Science will build on and extend the core skills of this subject. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Science subjects which continue through Year 11 and 12.



## Science

### Purpose

The study of Science provides students with opportunities to develop:

- an interest in Science as a means of expanding their curiosity and willingness to explore, ask questions about and speculate on the changing world in which they live.
- an understanding of the nature of scientific inquiry and the ability to use a range of scientific inquiry methods, including questioning, planning and conducting experiments and investigations based on ethical principles, collecting and analysing data, evaluating results, and drawing critical, evidence-based conclusions.
- an ability to communicate scientific understanding and findings to a range of audiences, to justify ideas on the basis of evidence, and to evaluate and debate scientific arguments and claims.
- an ability to solve problems and make informed, evidence-based decisions about current and future applications of Science while taking into account ethical and social implications of decisions.

### Course Outline

Through the Australian Curriculum: Science, students develop a solid foundation of knowledge of the Biological, Chemical, Physical, Earth and Space Sciences. They have opportunities to select and integrate the scientific knowledge and methods needed to explain and predict phenomena, to apply that understanding to new situations and events, and to appreciate the dynamic nature of science knowledge.

### Unit Description (Deep Understanding)

#### Earth and Space Sciences

This unit focuses on engaging students in the investigation of the enduring understanding that ‘we live on a planet that records its own history’ (Knoll, 2003). Through the consideration of minerals, fossils and sedimentary, igneous and metamorphic rocks, students will investigate the dynamic nature of the rock cycle and the processes that occur within Earth over a variety of timescales.

#### Biological Sciences

This unit focuses on engaging students in the investigation of cells as the building blocks of all living things. It also challenges students to consider the role of technology in the growing scientific understanding of cells. Through the consideration of cells, students will investigate how the basic units of living things

grow, are repaired, reproduce and carry out specialised functions.

#### Chemical Sciences

This unit focuses on engaging students in the investigation of the statement that ‘the most unmistakable chemical transformation is that of a matter’s state’ (Natalie Angier, 2007). Through the engagement in a range of laboratory based experiments, students will explore changes in matter at a particle level. They will describe the difference between elements, compounds and mixtures, and distinguish between chemical and physical changes.

#### Physical Sciences

This unit focuses on engaging students in the investigation of energy. ‘Energy cannot be created nor destroyed, merely converted’ (Julius Mayer, 1842). Students will explore how different forms of energy cause changes within simple systems and investigate how they can be informed consumers of energy.

### Key Skills

Students will be engaged in the following Science Inquiry Skills throughout the Year 8 Science course:

- identify questions and problems;
- make predictions based on scientific knowledge;
- plan and conduct investigations and fair tests;
- conduct field work and experiences;
- collect data appropriate to the task;
- use a range of representations;
- use digital technologies;
- summarise data;
- identify relationships and draw conclusions;
- evaluate data and identify improvements in methods;
- evaluate claims; and
- communicate ideas, findings and solutions using scientific language and representations.

### Assessment Overview

The Year 8 Science assessment course includes:

- Supervised written assessment tasks;
- Practical experimental reports;
- Scientific experimental reports.

### Pathways

Students in Year 8 Science continue to develop a strong foundation in the Junior School Science course. Progression through Year 9 Science will build on and extend the core skills of this subject. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Science subjects which continue through Year 11 and 12.

## Science

### Purpose

The study of Science provides students with opportunities to develop:

- an interest in Science as a means of expanding their curiosity and willingness to explore, ask questions about and speculate on the changing world in which they live.
- an understanding of the nature of scientific inquiry and the ability to use a range of scientific inquiry methods, including questioning, planning and conducting experiments and investigations based on ethical principles, collecting and analysing data, evaluating results, and drawing critical, evidence-based conclusions.
- an ability to communicate scientific understanding and findings to a range of audiences, to justify ideas on the basis of evidence, and to evaluate and debate scientific arguments and claims.
- an ability to solve problems and make informed, evidence-based decisions about current and future applications of Science while taking into account ethical and social implications of decisions.

### Course Outline

Through the Australian Curriculum: Science, students develop a solid foundation of knowledge of the Biological, Chemical, Physical, Earth and Space Sciences. They have opportunities to select and integrate the scientific knowledge and methods needed to explain and predict phenomena, to apply that understanding to new situations and events, and to appreciate the dynamic nature of science knowledge.

### Unit Description (Deep Understanding)

#### Chemical Sciences

This unit focuses on engaging students in the investigation of chemical reactions. Through the investigation of both non-living and living systems, students will develop an understanding of chemical reactions and the energy transformations that occur because of them.

#### Physical Sciences

This unit focuses on engaging students in the investigation of how forms of energy can be transferred in a variety of ways through different mediums and can be explained using wave and particle models. Through the construction of a traditional, stringed musical instrument, students will develop a greater understanding of how changing one variable can affect the types of waves produced and the resulting sound.

#### Biological Sciences – Human Anatomy and Physiology

This unit focuses on engaging students in the investigation of the human body as a network of coordinated and interdependent internal systems. Students will develop a greater understanding of the processes that maintain dynamic equilibrium at all organisational levels and in response to the changing environment to ensure survival.

#### Biological Sciences – Ecology

This unit focuses on engaging students in the investigation of how life is connected through ecosystems and how humans depend on ecosystems for their wellbeing. It provides students with an opportunity to reflect upon their individual and collective responsibility to the sustainability of our planet.

### Key Skills

Students will be engaged in the following Science Inquiry Skills throughout the Year 9 Science course:

- formulate experimental questions and hypotheses;
- use investigation methods including field work and laboratory experimentation;
- use appropriate equipment to systematically and accurately collect and record data;
- analyse patterns and trends in data;
- describe relationships between variables and identify inconsistencies;
- draw conclusions that are consistent with evidence;
- evaluate conclusions;
- identify sources of uncertainty and possible alternative explanations;
- describe ways of improving the quality of data;
- critically analyse the validity of information in primary and secondary sources; and
- communicate ideas, findings and solutions using scientific language and representations.

### Assessment Overview

The Year 9 Science assessment course includes:

- Supervised written assessment tasks;
- Written research report.

### Pathways

Year 9 Science is the completion of the Junior School Science course. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Science subjects which continue through Year 11 and 12.

# Psychology

## Purpose

Through the study of Psychology, students will be provided with opportunities to develop:

- an understanding of the theories of Psychology;
- an appreciation for how the brain works and impacts human behaviours;
- an understanding that psychological knowledge has developed over time and how this knowledge is shared in a variety of contexts and is informed by social, cultural and ethical considerations; and
- an understanding of how social, cultural and ethical considerations have shaped the study and practice of Psychology.

## Course Outline

The Year 9 Psychology course provides an opportunity for students to develop a solid foundation in psychological research and understanding. Throughout the course, students will conduct a variety of investigations involving collection and analysis of quantitative and qualitative data and the interpretation of evidence.

## Unit Description (Deep Understanding)

### Biological and Cognitive Psychology

This unit introduces students to the principles of what psychology is and its relationship with the human nervous system. It allows students to develop an understanding of the localisation of brain function and how memory works.

### Social Psychology

This unit focuses on engaging students in the investigation of how psychology shapes personality. It allows students to develop an understanding of concepts such as conformity and obedience and explores how attitudes are shaped.

## Key Skills

Students will be engaged in the following Science Inquiry Skills throughout the Year 9 Psychology course:

- describe and explain scientific concepts, theories, models and their limitations;
- reflect on relevant social, economic, ethical and cultural factors;
- apply their understanding of scientific concepts, theories and models to explain local, regional and global phenomena and predict outcomes, behaviours and implications; and
- analyse and interpret evidence and distinguish between quantitative, qualitative, primary and secondary evidence.

## Assessment Overview

The Year 9 Psychology assessment course includes:

- Supervised written exam;
- Written research assignment.

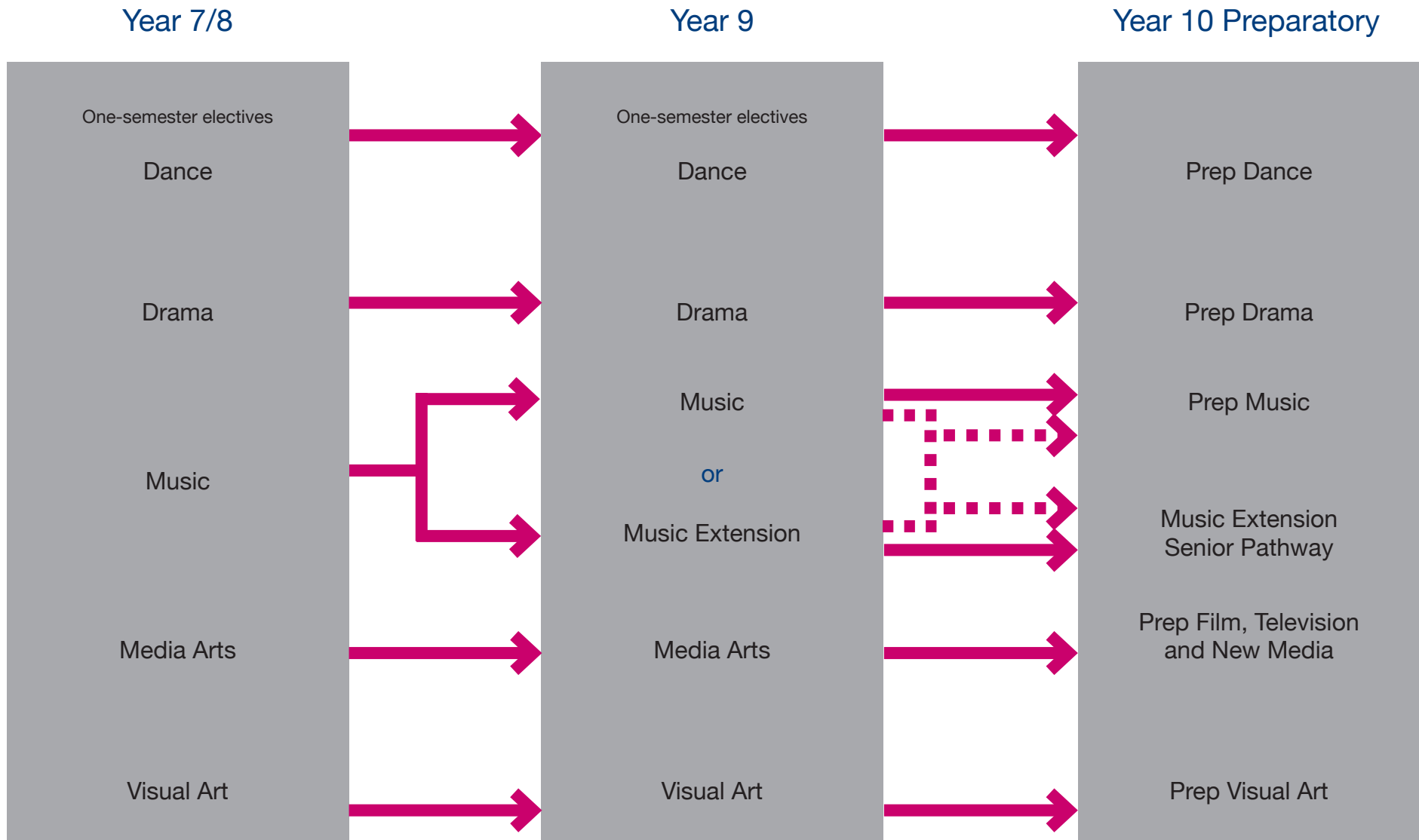
## Pathways

Year 9 Psychology course develops the knowledge and skills required for further study in the field of Psychology. In Year 10, students may choose to study Preparatory Psychology which continues through Year 11 and 12.

# The Arts



# Learning area: The Arts



Please note that due to the change in the Senior curriculum, Junior course names are subject to change.

## Purpose

The Arts is a learning area that draws together related but distinct art forms. While these art forms have close relationships and are often used in interrelated ways, each involves different approaches to arts practices and critical and creative thinking that reflect distinct bodies of knowledge, understanding and skills.

The Arts are an intellectually engaging intersection of lateral thought and practice. They interrogate the human experience and challenge our understandings by encouraging and provoking alternative ways of seeing, thinking and doing. They enable us to know and observe our world collectively and as individuals. They reveal a sense of who we are and might become as we make connections and new meaning of the world around us and our place in it.

Creative and expressive communication is central to The Arts. Students learn to pose and solve problems, work independently and in collaboration and create and convey meaning from various viewpoints. New skills are learnt and knowledge is created through the investigation and experience of valued traditions and practices across various art forms.

The processes and practices of arts, such as project-based learning and creative problem-solving, develop transferable 21st century skills that are highly valued in many areas of employment and essential to engagement in a complex and rapidly-changing world. Organisations increasingly seek employees who demonstrate work-related creativity, innovative thinking and diversity.

The curriculum examines past, current and emerging arts practices in each art form across a range of cultures and places. At Brisbane State High School, students choose from the following arts strands:

- Dance
- Drama
- Media Arts
- Music
- Visual Art

Each subject focuses on its own practices, terminology and unique ways of looking at the world.

In **Dance**, students use high-order thinking to gather information about the world around them and make decisions on how to use the body to communicate and express meaning through movement. Dance integrates choreography, performance and appreciation and teaches students to be analytical thinkers when responding to their own or past and present work.

In **Drama**, students explore and depict real and fictional worlds through use of body language, gesture and space to make meaning as performers and an audience. They create, rehearse, perform and respond to drama.

In **Media Arts**, students use communications technologies to creatively explore, make and interpret stories about people, ideas and the world around them. They engage their senses, imagination and intellect through media artworks that respond to diverse cultural, social and organisational influences on communications practices today.

In **Music**, students listen to, compose and perform music from a diverse range of styles, traditions and contexts. They create, shape and share sounds in time and space and critically analyse music. Music practice is aurally based and focuses on acquiring and using knowledge, understanding and skills about music and musicians.

In **Visual Art**, students experience and explore the concepts of artists, artworks, the world and audience. Students learn in, through and about visual art practices, including the fields of art, craft and design. Students develop practical skills and critical thinking, which inform their work as artists and audience.



## Course Outlines

### Dance

This unit focuses on storytelling and using students' bodies to communicate meaning. They will participate in contemporary and jazz dance technique lessons and learn a teacher-devised contemporary dance using *The Arrival* by Shaun Tan as stimulus. Students will engage in choreographic device workshops, teaching them skills on how to choreograph movement sequences, and short dance works. Students will respond to a range of written and visual texts, using dance to explore their explicit and implicit meanings. The subject will also involve students learning how to analyse, interpret and evaluate meaning and intent through dance.

### Drama

This unit focuses on students creating characters and roles and developing the relationships between those roles through the study of improvisational skills using *The Arrival* by Shaun Tan as the stimulus. The unit then goes on to further develop these skills enhanced by other dramatic elements such as dramatic tension. Using the play *The Witches* by Roald Dahl, the students create a polished, scripted performance work for an audience of their peers. The unit provides students with the opportunity to view live theatre and write an analytical response.

### Media Arts

This unit focuses on the meanings that context and characters can give to a narrative. Students study archetypes and the fundamentals of visual and film language which are synthesised through analysis and production tasks. Students learn how to storyboard and plan a film project. They then create these projects through a variety of animation techniques. An illustrated version of Homer's *The Odyssey* and *The Arrival* by Shaun Tan are used as the basis for archetype and classical narrative analysis. Students use their iPads and apps to plan, film and edit the audio and visual components of their productions. Students will learn animation techniques such as: stop motion, model, Lego, cell, clay, and digital animation and they will produce films with at least two of these techniques throughout the unit.

### Music

This unit focuses on the fundamental knowledge of what, how and why musical elements are used to express ideas and emotions in the creation of stories in music. Students develop and compose using performance skills and learn to appreciate their own and others' music in the context of stories. Students are introduced to the

aesthetic, artistic and cultural understanding of music in past and contemporary contexts as composers, performers and audiences including the role of stories in the music of Aboriginal and Torres Islander peoples. Students will identify and interpret how music is used to communicate intent and meaning.

### Visual Art

This unit focuses on Art & Storytelling and how human beings are compelled to create art to communicate ideas to explain events and feelings about the world. Art & Storytelling introduces students to a variety of artworks, using visual language conventions to make engaging, thought provoking artworks. Students will explore the four key design elements (line, tone, colour & texture), media, techniques and processes commonly found in artworks and combine these to create their own artworks in relation to their and others' cultural identities. Students will analyse artworks from a variety of time periods and cultures and compare how different media techniques and visual language conventions communicates diverse meanings. The subject will also involve students in the creative production of 2D, 3D and 4D artworks individually and in small groups.

### Key skills

The Arts aims to develop students':

- creativity, critical thinking, aesthetic knowledge and understanding about arts practices, through making and responding to artworks with increasing self-confidence;
- arts knowledge and skills to communicate ideas; they value and share their arts and life experiences by representing, expressing and communicating ideas, imagination and observations about their individual and collective worlds to others in meaningful ways;
- use of innovative arts practices with available and emerging technologies, to express and represent ideas, while displaying empathy for multiple viewpoints;
- understanding of Australia's histories and traditions through The Arts, engaging with the artworks and practices, both traditional and contemporary, of Aboriginal and Torres Strait Islander peoples; and
- understanding of local, regional and global cultures, and their Arts histories and traditions, through engaging with the worlds of artists, artworks, audiences and arts professions.

### Assessment Overview

Students will develop a folio of work that includes both making and responding tasks. Their assessment will include experimental and resolved works of art as well as written responding tasks.



Making includes learning about and using knowledge, skills, techniques, processes, materials and technologies to explore arts practices and make artworks that communicate ideas and intentions.

Responding includes exploring, responding to, analysing, interpreting and evaluating artworks.

### **Pathways**

Students can choose to continue studying in the same Arts discipline (Dance, Drama, Media Arts, Music, Visual Art) in Year 8, or they may choose to try a different strand. All of The Arts strands are offered from Year 7 to Year 12, and in the Senior phase of learning, all of The Arts courses contribute to an ATAR pathway.

## Course Outlines

### Dance

This unit focuses on identity. Students will explore Australian stories and identities through the medium of contemporary dance and learn how dance lends a voice to marginalised community members. Students will also learn how to convey a story and character in the style of jazz in musical theatre performance. Students will learn a performance task devised by the teacher to perform for a live audience. This practical learning will complement dance analysis where students learn to describe, interpret and evaluate dance to gain a deeper understanding of how dance is used to communicate intent and meaning.

### Drama

This unit focuses on telling stories, through developing students' skills of building character and creating tension. The students create dramatic meaning through scripted work using the script *Stories in the Dark* by Deborah Oswald. Students are introduced to physical storytelling conventions, and to magic realism and process drama. They devise and perform a ritual for an audience of their peers. Students also view and respond to a live performance.

### Media Arts

This unit focuses on how film makers and news sources deliver meaning to audiences through carefully curated representations of reality. Students learn the fundamental elements of non-fiction film making and documentaries through analysis and production of non-fiction texts. The documentary *Contact* is analysed in terms of its techniques and how these relate to the subjectivity and message of the film maker. Students will then learn how to design and plan their own documentaries through the use of scripting and storyboard software on their iPads. Students will ultimately use their iPads and the associated apps to film, record sound, edit and share their self-directed documentaries and non-fiction stories.

### Music

This unit focuses on the fundamental knowledge of what, how and why musical elements are used to express ideas and emotions in the creation of identity through music. Students will develop their compositional and performance skills and appreciation of their own and others' music in the context of identity. Students will gain aesthetic, artistic and cultural understanding of music in past and contemporary contexts as composers, performers and audiences including study of the music of Aboriginal and Torres Strait Islander peoples.

Students will identify and interpret how music is used to communicate intent and meaning.

### Visual Art

This unit focuses on Place, Space & Identity and will introduce students to the variety of artworks, using visual language conventions to make engaging, thought provoking artworks. Students will explore five key design elements (space, shape, composition, focal point & colour), media, techniques and processes commonly found in artworks and combine these to create their own artworks in relation to their own collective and personal identities. Students will analyse artworks from a variety of time periods and cultures and compare how different media techniques and visual language conventions communicates diverse meanings. The subject will also involve students in the creative production of 2D, 3D artworks individually and in small groups.

### Key skills

The Arts aims to develop students':

- creativity, critical thinking, aesthetic knowledge and understanding about arts practices, through making and responding to artworks with increasing self-confidence;
- arts knowledge and skills to communicate ideas; they value and share their arts and life experiences by representing, expressing and communicating ideas, imagination and observations about their individual and collective worlds to others in meaningful ways;
- use of innovative arts practices with available and emerging technologies, to express and represent ideas, while displaying empathy for multiple viewpoints;
- understanding of Australia's histories and traditions through The Arts, engaging with the artworks and practices, both traditional and contemporary, of Aboriginal and Torres Strait Islander peoples; and
- understanding of local, regional and global cultures, and their Arts histories and traditions, through engaging with the worlds of artists, artworks, audiences and arts professions.

### Assessment Overview

Students will develop a folio of work that includes both making and responding tasks. Their assessment will include experimental and resolved works of art as well as written responding tasks.

Making includes learning about and using knowledge, skills, techniques, processes, materials and technologies to explore arts practices and make artworks that communicate ideas and intentions.

Responding includes exploring, responding to, analysing, interpreting and evaluating artworks.

**Pathways**

Students can choose to continue studying in the same Arts discipline (Dance, Drama, Media Arts, Music, Visual Art) in Year 9, or they may choose to try a different strand. All of The Arts strands are offered from Year 7 to Year 12, and in the Senior phase of learning, all of The Arts courses contribute to an ATAR pathway.

## Purpose

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The Arts are an intellectually engaging intersection of lateral thought and practice. They interrogate the human experience and challenge our understandings by encouraging and provoking alternative ways of seeing, thinking and doing. They enable us to know and observe our world collectively and as individuals. They reveal a sense of who we are and might become as we make connections and new meaning of the world around us and our place in it.

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- Drama
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- Music
- Visual Art

Each subject focuses on its own practices, terminology and unique ways of looking at the world.

In **Dance**, students use high-order thinking to gather information about the world around them and make decisions on how to use the body to communicate and express meaning through movement. Dance integrates choreography, making performance, and responding. It teaches students to be analytical thinkers when responding to their own or past and present work.

In **Drama**, students explore and depict real and fictional worlds through use of body language, gesture

and space to make meaning as performers and audience. They create, rehearse, perform and respond to drama.

In **Media Arts**, students use communications technologies to creatively explore, make and interpret stories about people, ideas and the world around them. They engage their senses, imagination and intellect through media artworks that respond to diverse cultural, social and organisational influences on communications practices today.

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In **Visual Art**, students experience and explore the concepts of artists, artworks, world and audience. Students learn in, through and about visual art practices, including the fields of art, craft and design. Students develop practical skills and critical thinking which inform their work as artists and audience.

## Course Outlines

### Dance

This unit focuses on the Functions of Social, Ritual and Artistic Dance. Students participate in contemporary dance technique workshops, conduct research and evaluate current contemporary Australian dance companies and choreographers to gain a deeper understanding of how artistic dance communicates ideas, emotions and social/political messages. Students will analyse, interpret and evaluate the artistic and ritual function dance serves in Australia. Students also participate in social dance workshops and learn a dance to perform for assessment and for a live audience at Dance Showcase. Students will also learn to manipulate choreographic devices to create their own ritual dance.

### Drama

This unit focuses on the connecting to your instinct as a performer and finding the joy in 'being', developing this quality through clowning and other heightened performance styles. Students explore character types and story structures through styles such as Melodrama and Commedia dell'arte. They direct a scene, create improvised performance from scenarios and perform scripted text. Students' written work (Responding) is in response to viewing a live performance.

## Media Arts

The focus of this unit is advertising and the use of public space for media and social communication. Students will investigate the purpose of traditional and new forms of advertising and analyse the ways that representations, semiotic language and technology interplay in this area of social and commercial spaces. Students will study representations of Australia and Australian products and how these are manipulated and targeted at audiences for specific purposes. Students will make an audio visual advertisement with a specific target audience and commercial objective in mind. The second part of the unit focuses on the use of media and technology for activism in public and online spaces. Students will investigate Naomi Klein's concept of Culture Jamming and produce advertisements and media products that subvert the traditional narratives of well-known brands.

## Music

This unit focuses on learning the fundamental knowledge of what, how and why musical elements are used to express mood, character and emotions in the context of theatrical music. Students will develop their compositional and performance skills and appreciation of their own and others' music. Students will gain a deeper understanding of the aesthetic, artistic and cultural function of music in past and contemporary contexts as composers, performers and audiences including the role of singing and dancing in the music of Aboriginal and Torres Strait Islander peoples. They further identify and interpret how music is used to communicate intent and meaning in theatrical music.

## Year 9 Music Extension

The course aims to enable students to extend their knowledge and skills in the areas of performance, composition and analysis of music. To promote innovation and creativity, the program also aims to facilitate opportunities for project-based learning, allowing students scope to deepen knowledge and skill areas of their specific musical interest.

Students seeking to enrol in the Junior Music Extension program are required to undertake an interview/audition and theory test. Audition requirements include demonstration of performance capability, theory and musicianship skills. Further details regarding the selection process will be available in Term 3.

## Visual Art

The focus on Art and the Environment explores the tension between the built environment and the natural world. Students engage with contemporary art practice

and work across a range of mediums which could include printmaking, painting, drawing and ceramics. Drawing skills underpin studio practice and time is spent developing both observational and expressive drawing.

## Key skills

The Arts aims to develop students':

- creativity, critical thinking, aesthetic knowledge and understanding about arts practices, through making and responding to artworks with increasing self-confidence;
- arts knowledge and skills to communicate ideas; they value and share their arts and life experiences by representing, expressing and communicating ideas, imagination and observations about their individual and collective worlds to others in meaningful ways;
- Use of innovative arts practices with available and emerging technologies, to express and represent ideas, while displaying empathy for multiple viewpoints;
- understanding of Australia's histories and traditions through the Arts, engaging with the artworks and practices, both traditional and contemporary, of Aboriginal and Torres Strait Islander peoples; and
- understanding of local, regional and global cultures, and their Arts histories and traditions, through engaging with the worlds of artists, artworks, audiences and arts professions.

## Assessment overview

Students will develop a folio of work that includes both making and responding tasks. Their assessment will include experimental and resolved works of art as well as written responding tasks.

Making includes learning about and using knowledge, skills, techniques, processes, materials and technologies to explore arts practices and make artworks that communicate ideas and intentions.

Responding includes exploring, responding to, analysing, interpreting and evaluating artworks.

## Pathways

Students can choose to continue studying in the same Arts discipline (Dance, Drama, Media Arts, Music, Visual Art) in Year 10, or they may choose to try a different strand. It is envisaged that students studying Music Extension in Junior will continue onto this subject in Senior. Junior Music Extension offers accelerated learning, with students moving through Year 9 – 10 Australian curriculum in one year, offering the opportunity to enrol in the Music Extension course in Year 10, where students commence Units 1 and 2 of the Senior Music syllabus, and continue with Units 3 and 4 in Year 11.

Students engaged in this pathway will then complete Senior Music Extension in Year 12.

All of The Arts strands are offered from Year 7 to Year 12, and in the Senior phase of learning, all of The Arts courses contribute to an ATAR pathway.

# Individual Learning and Development

Aspire

Intervention Support Programs

ICT tools and devices to enhance learning — iPads

Readiness criteria





# Year 7 Aspire English and Humanities

## Purpose

Aspire English and Humanities are enrichment courses that enable students to pursue and develop their interests and abilities in the Humanities field (English language, literature and media studies as well as History, Geography, Economics and Philosophy and Reason). The courses explore topics or themes with greater breadth and depth than is normally required and thus enable learners to develop an appreciation of the wider context of a subject area. Teaching and learning in these courses also aims to foster social and emotional growth by challenging students with ethical questions.

Educational enrichment in Aspire English and Humanities includes, where possible: greater choice, more opportunity for both independence and collaboration, curriculum materials or resources from later stages or higher levels of study, older students or experts as mentors, excursions, performances and master classes and encouragement and support to enter competitions.

## Key Skills

A student studying Aspire English and Humanities at Brisbane State High School is:

- a confident user of written and spoken language;
- a critical thinker who is able to solve problems in a variety of ways;
- curious about how the world works;
- an avid reader; and
- collaborative when working with others.

## Unit description (deep understanding)

### English and Humanities

Personal Histories: Students listen to, read and view texts that examine learning strategies for success in English and Humanities, and reflect on their self-image as a learner.

## Semester 1 Big Idea: We Are Our Past

### English

#### 'Myths are Public Dreams'

Students question the role of mythology and contemporary literature in shaping and reflecting the values of cultures.

#### Understanding Life Backwards

Students read life writing to identify and explain differences between points of view in texts from different historical, social and cultural contexts.

### Humanities

#### Investigating the Ancient Past

Students will investigate how archaeologists and historians investigate the past, the nature of sources and

how they are used to solve historical mysteries, using Ancient Egypt as a case study.

#### The Mediterranean World

Students will investigate the physical features of Ancient Greece, key groups in society, significant individuals, and beliefs, values and practices of Athens and Spartan society. Students will then evaluate the significance of these societies in terms of the modern day to determine how we are, or are not our past.

#### The Asian World

Students will conduct research based learning on Ancient China, analysing a diversity of sources and evaluating the legacies and significance of these societies in the 21st Century.

## Semester 2 Big Idea: Perspectives

### English

#### Introduction to Shakespeare

Students view, listen to, and read a collection of excerpts from Shakespeare's body of work, with a focus on poetry, and debate its aesthetic and social value.

#### Perspectives of Place

Students question the impact of advertising texts on people's perspectives of localities and environments close to home and those further afield.

### Humanities

#### The Value of Water Is...

Students assess the uses of water, perceptions and values, its different forms as a resource, the ways it connects places, its varying availability in time and across space, and its scarcity. They will develop sustainability awareness, problem-solving skills and make geographical decisions.

#### Perspectives of Place

Students will focus on the concept of place through an investigation of liveability. This unit examines factors that influence liveability and how it is perceived. Students will look at other cities and compare. This unit develops students' ability to evaluate the liveability of their own place and to investigate whether it can be improved through planning.

## Assessment overview

Students will create and respond to a range of written, spoken and multimodal text types in exam and assignment conditions. When possible, assessment tasks will be situated in real life contexts, for example, if students write a narrative, they may compile their

collective efforts into an anthology and peer nominate a selection for entry into writing competitions based on the criteria established for the task. In Humanities, students will work through an independent, historical inquiry using a variety of primary and secondary sources. They will also undertake fieldwork to collect data and present geographically. Most assessment will be conducted separately within the English and Humanities units, however, some may be integrated.

### **Pathways**

Students will progress from Year 7 Aspire English and Humanities to Year 8 Aspire English and Humanities. Students who meet the prerequisites may apply to study English Extension in Year 9. The usual progression would be the study of English Literature in Year 10, 11 and 12. Further enrichment opportunities exist for students in the English Literature and English Extension course (Year 12 only).

# Year 7 Aspire Mathematics

## Purpose

Aspire Mathematics is an enrichment course that provides students with an opportunity to pursue and develop their interests and skills in the mathematical strands of: Number and Algebra, Measurement and Geometry, and Statistics and Probability. The course explores topics with greater breadth and depth than is normally required and thus enables learner to develop an appreciation of the wider context area of Mathematics.

The learning opportunities in the Aspire Mathematics course includes, where possible: greater choice, more opportunity for both independence and collaboration, excursions, and encouragement and support to engage in externally offered extension opportunities.

Through the study of Mathematics at Brisbane State High School, students will be provided with opportunities to:

- become confident, creative users and communicators of Mathematics.
- be able to investigate, represent and interpret situations in their personal and work lives and as active citizens.
- develop an increasingly sophisticated understanding of mathematical concepts and fluency with processes, and be able to pose and solve problems and reason in Number and Algebra, Measurement and Geometry, and Statistics and Probability.
- recognise connections between the areas of Mathematics and other disciplines.
- appreciate Mathematics as an accessible and enjoyable discipline to study.

## Course Outline

The Year 7 Aspire Mathematics course seeks to support students to develop a solid foundation and knowledge of numeracy. The construction of curriculum and units within Mathematics is spiralling in nature and as such students will engage with strands on a number of occasions throughout the year at increasing levels of complexity. Below is a brief outline of each strand/unit and the associated key skills.

### Unit Description (deep understanding)

#### Number and Algebra

This unit focuses on developing Number and Algebra together, as each enriches the study of the other. Students apply number sense and strategies for counting and representing numbers. They explore the magnitude and properties of numbers. They apply a range of strategies for computation and understand the connections between operations. They recognise patterns and understand the concepts of variable and function. They build on their understanding of the

number system to describe relationships and formulate generalisations. They recognise equivalence and solve equations and inequalities. They apply their number and algebra skills to conduct investigations, solve problems and communicate their reasoning.

#### Measurement and Geometry

This unit focuses on developing Measurement and Geometry together to emphasise their relationship to each other, enhancing their practical relevance. Students develop an increasingly sophisticated understanding of size, shape, relative position and movement of two-dimensional figures in the plane and three-dimensional objects in space. They investigate properties and apply their understanding of them to define, compare and construct figures and objects. They learn to develop geometric arguments. They make meaningful measurements of quantities, choosing appropriate metric units of measurement. They build an understanding of the connections between units and calculate derived measures such as area, speed and density.

#### Statistics and Probability

This unit focuses on initially developing Statistics and Probability in parallel and the curriculum then progressively builds the links between them. Students recognise and analyse data and draw inferences. They represent, summarise and interpret data and undertake purposeful investigations involving the collection and interpretation of data. They assess likelihood and assign probabilities using experimental and theoretical approaches. They develop an increasingly sophisticated ability to critically evaluate chance and data concepts and make reasoned judgements and decisions, as well as building skills to critically evaluate statistical information and develop intuitions about data.

### Key Skills

Students will be engaged in the following Numeracy Skills throughout the Year 7 Aspire Mathematics course:

- Solve problems involving the comparison, addition and subtraction of integers;
- Make connections between whole numbers and index notation including the relationship between perfect squares and square roots;
- Interpret and solve simple linear representations and model authentic information;
- Compare the cost of items to make financial decisions;
- Solve problems involving percentages and all four operations with fractions and decimals;
- Use fractions, decimals and percentages, and their equivalences;

- Express one quantity as a fraction/percentage of another;
- Describe different views of three-dimensional objects;
- Assign ordered pairs to given points on the Cartesian plane;
- Represent transformations in the Cartesian plane;
- Solve simple numerical problems involving angles formed by a transversal crossing two parallel lines;
- Use formulas for the area and perimeter of rectangles and calculate volumes of rectangular prisms;
- Classify triangles and quadrilaterals;
- Name the types of angles formed by a transversal crossing parallel lines;
- Determine the sample space for simple experiments with equally likely outcomes and assign probabilities to those outcomes;
- Identify issues involving the collection of continuous data;
- Calculate mean, mode, median and range for data sets;
- Describe the relationship between the median and mean in data displays;
- Construct stem-and-leaf plots and dot-plots.

### **Assessment Overview**

The Year 7 Aspire Mathematics assessment course includes:

- Supervised written assessment tasks;
- Written assignments.

### **Pathways**

Year 7 Aspire Mathematics is the foundation of the Junior School Mathematics Extension course. Students will continue into Year 8 to enter Aspire Mathematics and can then apply for Year 9 Mathematics Extension if prerequisites are met. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Mathematics subjects which continue through Year 11 and 12.

# Year 7 Aspire Science

## Purpose

Aspire Science is an enrichment course that provides students with an opportunity to pursue and develop their interests and skills in the scientific fields of: Biological Science, Chemical Science, Physical Science and Earth and Space Science. The course explores topics with greater breadth and depth than is normally required and thus enables learner to develop an appreciation of the wider context area of Science.

The learning opportunities in the Aspire Science course includes, where possible: greater choice, more opportunity for both independence and collaboration, excursions, and encouragement and support to engage in externally offered extension opportunities.

Through the study of Science at Brisbane State High School, students will be provided with opportunities to develop:

- an interest in Science as a means of expanding their curiosity and willingness to explore, ask questions about and speculate on the changing world in which they live.
- an understanding of the nature of scientific inquiry and the ability to use a range of scientific inquiry methods, including questioning, planning and conducting experiments and investigations based on ethical principles, collecting and analysing data, evaluating results, and drawing critical, evidence-based conclusions.
- an ability to communicate scientific understanding and findings to a range of audiences, to justify ideas on the basis of evidence, and to evaluate and debate scientific arguments and claims.
- an ability to solve problems and make informed, evidence-based decisions about current and future applications of Science while taking into account ethical and social implications of decisions.

## Course Outline

The Year 7 Aspire Science course seeks to support students to develop a solid foundation of knowledge of the Biological, Chemical, Physical, Earth and Space Sciences, including being able to select and integrate the scientific knowledge and methods needed to explain and predict phenomena, to apply that understanding to new situations and events, and to appreciate the dynamic nature of science knowledge.

## Unit Description (deep understanding)

### Biological Sciences

This unit focuses on the enduring understanding that 'systems of classification are based on shared physical characteristics' (Carl Linnaeus). Students will describe the interactions between organisms via food chains and

food webs and consider how human activity can affect these interactions.

### Chemical Sciences

This unit focuses on engaging students in the investigation of the enduring understanding that water appears in three states of matter and takes many different forms on Earth. Students will investigate the important resource of water, utilising a range of separation techniques.

### Physical Sciences

This unit focuses on engaging students in the investigation of the enduring understanding that for every action there is an equal or opposite reaction (Isaac Newton). Students will investigate how unbalanced forces cause changes to the motion of an object.

### Earth and Space Sciences

This unit focuses on engaging students in the investigation of the enduring understanding that some of Earth's resources are renewable, but others are non-renewable. Students will consider how Science and Technology contributes to finding solutions to a range of contemporary issues regarding renewable and non-renewable resources.

## Key Skills

Students will be engaged in the following Science Inquiry Skills throughout the Year 7 Science course:

- identify questions and problems;
- make predictions based on scientific knowledge;
- plan and conduct investigations and fair tests;
- conduct field work and experiences;
- collect data appropriate to the task;
- use a range of representations;
- use digital technologies;
- summarise data;
- identify relationships and draw conclusions;
- evaluate data and identify improvements in methods;
- evaluate claims; and
- communicate ideas, findings and solutions using scientific language and representations.

## Assessment Overview

The Year 7 Aspire Science assessment course includes:

- Supervised written assessment tasks;
- Practical experimental reports;
- Multimodal presentations.
- Extended experimental investigations.

**Pathways**

Year 7 Aspire Science is the foundation of the Junior Science Extension course. Students will continue into Year 8 to enter Aspire Science. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Science subjects which continue through Year 11 and 12.

# Year 8 Aspire English and Humanities

## Purpose

Aspire English and Humanities are enrichment courses that enable students to pursue and develop their interests and abilities in the Humanities field (English language, literature and media studies as well as History, Geography, Economics and Philosophy and Reason). The courses explore topics or themes with greater breadth and depth than is normally required and thus enable learners to develop an appreciation of the wider context of a subject area. Teaching and learning in these courses also aims to foster social and emotional growth by challenging students with ethical questions.

Educational enrichment in Aspire English and Humanities includes, where possible: greater choice, more opportunity for creativity, independence and collaboration, curriculum materials or resources from later stages or higher levels of study, older students or experts as mentors, excursions, performances and master classes and encouragement and support to enter competitions.

## Key Skills

A student studying Aspire English and Humanities at Brisbane State High School is:

- a confident user of written and spoken language;
- a critical thinker who is able to solve problems in a variety of ways;
- curious about how the world works and is an avid reader; and
- collaborative when working with others.

## Unit description (deep understanding)

### Semester 1 Big Idea: Change

#### English

##### Owning Adolescence

Students question the impact of media and literary texts that represent young people and position readers in relation to this group. They challenge the use of language to shape the issues and identities of adolescents.

##### Shakespeare's *Macbeth*

Students listen to, view and read a range of texts that explore the different historical, social and cultural contexts of Shakespeare's times and discuss the ways these can influence how audiences interpret his stories.

#### Humanities

##### Why do Societies Change?

Year 8 History focuses on the deep understanding of Why do Societies Change? Based on the investigation, through historical inquiry, of three depth studies based on the Ancient to Modern World. These include:

- The Western and Islamic World: Medieval Europe (c. 590-1500)  
Students will investigate how continuity and change influenced the way of life, significant developments, society and the church in Medieval Europe.
- The Asia Pacific World: Japan Under the Shoguns (c. 794-1867)  
Students will investigate how the way of life in Shogunate Japan was influenced by changes in politics and the influence of western societies.
- Expanding Contacts  
Students will research the short and long term impacts of a chosen society which has experienced a conquest.

### Semester 2 Big Idea: Representing Australia

#### English

##### Poetry of Belonging

Students listen to, read and interpret poetry, including Aboriginal and Torres Strait Islander poetry, to explore the relationship between landscape, identity and belonging.

##### Growing Up Australian

Students listen to, read and view a variety of life writing featuring representations of Australia's peoples, histories and cultures to explore the way we see people and issues.

#### Humanities

##### Changing Nations

Students investigate the changing human geography of countries, as revealed by shifts in population distribution. The unit explores the process of urbanisation and draws on a study of a country of the Asia region to show how urbanisation changes the economies and societies of low- and middle-income countries. Students will also examine reasons for internal and external migration, including causes of forced migration, refugees and asylum seekers.

##### Landforms and Landscapes

Geomorphology through studies of landscapes and landforms. This unit examines the processes that shape individual landforms, the values and meanings placed on landforms and landscapes by diverse cultures, hazards associated with landscapes, and management of landscapes. Landforms and landscapes develops students' understanding of the concept of environment and enables them to explore the significance of landscapes to people.



**Assessment overview**

Students will create and respond to a range of written, spoken and multimodal text types in exam and assignment conditions. When possible, assessment tasks will be situated in real life contexts, for example, if students write a narrative, they may compile their collective efforts into an anthology and peer nominate a selection for entry into writing competitions based on the criteria established for the task. Most assessment will be conducted separately within the English and Humanities units, however, some may be integrated.

**Pathways**

Students will progress from Year 8 Aspire English and Humanities to either Year 9 English or Year 9 English Extension if prerequisites are met. All students study Year 9 Humanities which is described above. Senior pathways for students of Aspire English include Prep English and Literature in Year 10, Senior English or Literature in Year 11 and 12, and the one-year course, English Extension, in Year 12. Students can then elect to study Modern History, Ancient History, Economics, Philosophy and Reason or Geography in Year 10, 11 and 12.

# Year 8 Aspire Mathematics

## Purpose

Aspire Mathematics is an enrichment course that provides students with an opportunity to pursue and develop their interests and skills in the mathematical strands of: Number and Algebra, Measurement and Geometry, and Statistics and Probability. The course explores topics with greater breadth and depth than is normally required and thus enables learner to develop an appreciation of the wider context area of Mathematics.

The learning opportunities in the Aspire Mathematics course includes, where possible: greater choice, more opportunity for both independence and collaboration, excursions, and encouragement and support to engage in externally offered extension opportunities.

Through the study of Mathematics at Brisbane State High School, students will be provided with opportunities to:

- become confident, creative users and communicators of Mathematics.
- be able to investigate, represent and interpret situations in their personal and work lives and as active citizens.
- develop an increasingly sophisticated understanding of mathematical concepts and fluency with processes, and be able to pose and solve problems and reason in Number and Algebra, Measurement and Geometry, and Statistics and Probability.
- recognise connections between the areas of Mathematics and other disciplines.
- appreciate Mathematics as an accessible and enjoyable discipline to study.

## Course Outline

The Year 8 Aspire Mathematics course seeks to support students to continue to develop a solid foundation and knowledge of numeracy. The construction of curriculum and units within Mathematics is spiralling in nature and as such students will engage with strands on a number of occasions throughout the year at increasing levels of complexity. Below is a brief outline of each strand/unit and the associated key skills.

### Unit Description (deep understanding)

#### Number and Algebra

This unit focuses on developing Number and Algebra together, as each enriches the study of the other. Students apply number sense and strategies for counting and representing numbers. They explore the magnitude and properties of numbers. They apply a range of strategies for computation and understand the connections between operations. They recognise patterns and understand the concepts of variable

and function. They build on their understanding of the number system to describe relationships and formulate generalisations. They recognise equivalence and solve equations and inequalities. They apply their number and algebra skills to conduct investigations, solve problems and communicate their reasoning.

#### Measurement and Geometry

This unit focuses on developing Measurement and Geometry together to emphasise their relationship to each other, enhancing their practical relevance. Students develop an increasingly sophisticated understanding of size, shape, relative position and movement of two-dimensional figures in the plane and three-dimensional objects in space. They investigate properties and apply their understanding of them to define, compare and construct figures and objects. They learn to develop geometric arguments. They make meaningful measurements of quantities, choosing appropriate metric units of measurement. They build an understanding of the connections between units and calculate derived measures such as area, speed and density.

#### Statistics and Probability

This unit focuses on initially developing Statistics and Probability in parallel and the curriculum then progressively builds the links between them. Students recognise and analyse data and draw inferences. They represent, summarise and interpret data and undertake purposeful investigations involving the collection and interpretation of data. They assess likelihood and assign probabilities using experimental and theoretical approaches. They develop an increasingly sophisticated ability to critically evaluate chance and data concepts and make reasoned judgements and decisions, as well as building skills to critically evaluate statistical information and develop intuitions about data.

## Key Skills

Students will be engaged in the following Numeracy Skills throughout the Year 8 Aspire Mathematics course:

- Solve everyday problems involving rates, ratios and percentages;
- Recognise index laws and apply them to whole numbers;
- Describe rational and irrational numbers;
- Solve problems involving profit and loss;
- They make connections between expanding and factorising algebraic expressions;
- Use efficient mental and written strategies to carry out the four operations with integers;
- Simplify a variety of algebraic expressions;

- Solve linear equations and graph linear relationships on the Cartesian plane;
- Solve problems relating to the volume of prisms;
- Make sense of time duration in real applications;
- Identify conditions for the congruence of triangles and deduce the properties of quadrilaterals;
- Convert between units of measurement for area and volume;
- Determine perimeter and area of parallelograms, rhombuses and kites;
- Name the features of circles and calculate the areas and circumferences of circles;
- Model authentic situations with two-way tables and Venn diagrams;
- Use appropriate language to describe events and experiments;
- Explain issues related to the collection of data and the effect of outliers on means and medians in that data;
- Determine complementary events;
- Calculate the sum of probabilities.

### **Assessment Overview**

The Year 8 Aspire Mathematics assessment course includes:

- Supervised written assessment tasks;
- Written assignments.

### **Pathways**

Students in Year 8 Aspire Mathematics continue to develop a strong foundation in the Junior School Mathematics course. Progression through Year 9 Mathematics will build on and extend the core skills of this subject. Students may apply to study Mathematics Extension in Year 9 if prerequisites are met. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Mathematics subjects which continue through Year 11 and 12.

# Year 8 Aspire Science

## Purpose

Aspire Science is an enrichment course that provides students with an opportunity to pursue and develop their interests and skills in the scientific fields of: Biological Science, Chemical Science, Physical Science and Earth and Space Science. The course explores topics with greater breadth and in depth than is normally required and thus enables learner to develop an appreciation of the wider context area of Science.

The learning opportunities in the Aspire Science course includes, where possible: greater choice, more opportunity for both independence and collaboration, excursions, and encouragement and support to engage in externally offered extension opportunities.

Through the study of Science at Brisbane State High School, students will be provided with opportunities to develop:

- an interest in Science as a means of expanding their curiosity and willingness to explore, ask questions about and speculate on the changing world in which they live.
- an understanding of the nature of scientific inquiry and the ability to use a range of scientific inquiry methods, including questioning, planning and conducting experiments and investigations based on ethical principles, collecting and analysing data, evaluating results, and drawing critical, evidence-based conclusions.
- an ability to communicate scientific understanding and findings to a range of audiences, to justify ideas on the basis of evidence, and to evaluate and debate scientific arguments and claims.
- an ability to solve problems and make informed, evidence-based decisions about current and future applications of Science while taking into account ethical and social implications of decisions.

## Course Outline

The Year 8 Aspire Science course seeks to support students to develop a solid foundation of knowledge of the Biological, Chemical, Physical, Earth and Space Sciences, including being able to select and integrate the scientific knowledge and methods needed to explain and predict phenomena, to apply that understanding to new situations and events, and to appreciate the dynamic nature of science knowledge.

## Unit Description (deep understanding)

### Earth and Space Sciences

This unit focuses on engaging students in the investigation of the enduring understanding that ‘we live on a planet that records its own history’ (Knoll, 2003). Through the consideration of minerals, fossils and

sedimentary, igneous and metamorphic rocks, students will investigate the dynamic nature of the rock cycle and the processes that occur within Earth over a variety of timescales.

### Biological Sciences

This unit focuses on engaging students in the investigation of cells as the building blocks of all living things. It also challenges students to consider the role of technology in the growing scientific understanding of cells. Through the study of cells, students will investigate how the basic units of living things grow, are repaired, reproduce and carry out specialised functions.

### Chemical Sciences

This unit focuses on engaging students in the investigation of the enduring understanding that ‘the most unmistakable chemical transformation is that of a matter’s state’ (Natalie Angier, 2007). Through the engagement in a range of laboratory based experiments, students will explore changes in matter at a particle level. They will describe the difference between elements, compounds and mixtures, and distinguish between chemical and physical changes.

### Physical Sciences

This unit focuses on engaging students in the investigation of the enduring understanding that ‘energy cannot be created nor destroyed, merely converted’. (Julius Mayer, 1842). Through the engagement in investigations learning, students will explore how different forms of energy cause changes within simple systems and that they can be informed consumers of energy.

## Key Skills

Students will be engaged in the following Science Inquiry Skills throughout the Year 8 Science course:

- identify questions and problems;
- make predictions based on scientific knowledge;
- plan and conduct investigations and fair tests;
- conduct field work and experiences;
- collect data appropriate to the task;
- use a range of representations;
- use digital technologies;
- summarise data;
- identify relationships and draw conclusions;
- evaluate data and identify improvements in methods;
- evaluate claims; and
- communicate ideas, findings and solutions using scientific language and representations.

**Assessment Overview**

The Year 8 Aspire Science assessment course includes:

- Supervised written assessment tasks;
- Practical experimental reports;
- Scientific experimental reports.

**Pathways**

Students in Year 8 Aspire Science continue to develop a strong foundation in the Junior Science course. Progression through Year 9 Science will build on and extend the core skills of this subject. In Year 10, students may choose, if prerequisites are met, one or more preparatory Senior Science subjects which continue through Year 11 and 12.

# Intervention Support Programs

The Learning and Enrichment Team aims to promote inclusive practices within the State High learning community, thus enabling the diverse range of learners to successfully access the curriculum and participate in the life of State High. The Department acts in a consultative and collaborative capacity in addressing the learning needs of all students. Initially, at the enrolment stage, the educational needs of individual students is identified and support processes for accessing learning is implemented where appropriate. Particularly, we focus on the inclusion of:

- students diagnosed with disabilities;
- students experiencing learning differences related to literacy and numeracy;
- students from diverse cultural and linguistic backgrounds for whom English is an additional language or dialect (EAL/D); and
- students from Aboriginal and Torres Strait Islander backgrounds (ATSI).

To support these students in accessing the most relevant and meaningful courses of study, the Learning and Enrichment Team offers the following programs which are compulsory for identified students requiring support:

- Literacy Program (LSU); and
- Language for Academic Success (LAS).

## Literacy Intervention Program (LSU)

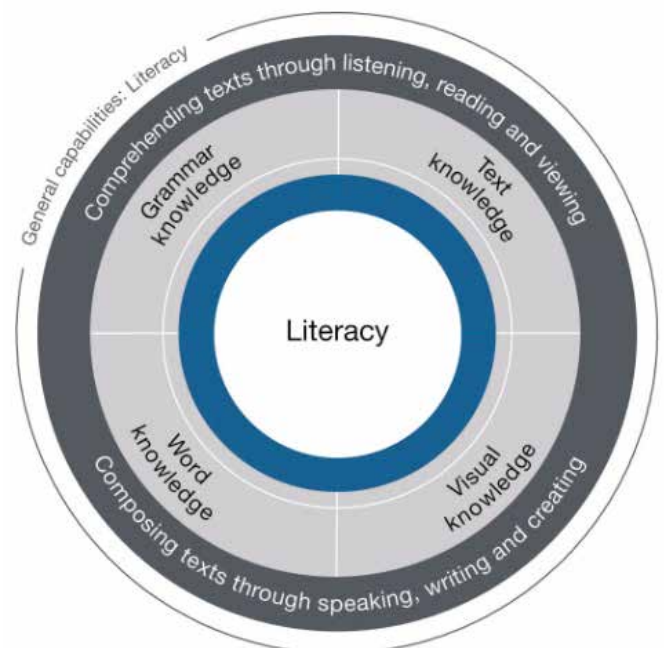
Literacy is an essential skill for students in becoming successful learners at school and in life beyond school. Literacy is the foundation for success in all learning areas; success in any learning area depends on being able to use the significant, identifiable and distinctive literacy that is important for learning and representative of the content of that learning area. Becoming literate is not simply about knowledge and skills. Certain behaviours and dispositions assist students to become effective learners who are confident and motivated to use their literacy skills broadly. They include students

managing their own learning to be self-sufficient, working harmoniously with others, being open to ideas, opinions and texts from and about diverse cultures, returning to tasks to improve and enhance their work, and being prepared to question the meanings and assumptions in texts.

Eligibility for LSU is based on the following criteria:

- students with an identified learning difficulty; or
- disability which impacts their cognitive ability;
- academic results or performance:
  1. results from recent NAPLAN Test;
  2. low academic results (despite inclass interventions);
  3. information gathered from mainstream teacher (work samples, formative assessment results); and
  4. data gathered from previous school(s).

## Overview



## Assessment

Ongoing and daily formative assessment across each strand on the Australian Curriculum Literacy continuum, annually Progressive Achievement Testing (PAT) in comprehension, vocabulary and writing. Students can exit the program at the end of each semester if evidential progress has been made.

## Language for Academic Success (LAS) Intervention Program

Language for Academic Success (LAS) is a school-based subject, offered to targeted and eligible students in Year 7 to Year 10, who use English as an Additional Language or Dialect (EAL/D). Many languages are spoken in homes and communities around Australia. These languages are different from the Standard Australian English (SAE), recognised as 'the common' language of Australians and used to deliver the curriculum in Australian schools.

LAS is designed to support eligible EAL/D students, who are learning SAE as a new language, while simultaneously learning the curriculum and endeavouring to achieve successful curriculum outcomes. EAL/D students often struggle with the academic language of the classroom as they are still developing the SAE language proficiency. LAS is a subject which provides the opportunity for EAL/D for students to build SAE language skills and develop the academic language required by the different curriculum areas.

LAS provides support by explicitly teaching language skills in Reading, Listening, Writing and Speaking. Whilst these skills are taught explicitly, they are taught in the context of curriculum areas. LAS is compulsory for targeted eligible students until their language skills have developed sufficiently to allow independent access to mainstream curriculum.

Eligibility for LAS is based on the following criteria:

- English is an alternative language or dialect;
- the student has been in Australia for less than five years
- academic results or performance:
  1. on the State High Language Placement Test;
  2. results from recent NAPLAN Test;
  3. band scales when tested and interviewed by an EAL/D specialist teacher;
  4. low academic results;
  5. Information gathered from mainstream and EAL/D teacher from previous school; and
  6. previous data gathered from previous school and/or history of English learning;

## Overview

Each semester's work is designed to develop the English Language skills needed for success across a range of mainstream subjects. While the demands of the English course are the biggest focus, LAS also helps students develop the language skills needed for other literacy based subjects such as sciences and humanities. Reading skills, continuous writing opportunities, focused grammar episodes, speaking and listening exercises and skill development, individual and group productions in the four strands are all parts of the LAS course.

## Assessment

Ongoing and daily formative and summative assessment will be across the four strands which will be gathered to find a final grade. Testing is reflective of the EQ EAL/D Band scales (rating 1-7) which is commonly used across schools in Education Queensland as well as A – E for achievement for behaviour and effort.



# ICT tools and devices to enhance learning – iPads

As part of our curriculum, teachers at Brisbane State High School utilise a number of ICT tools and devices to develop the ICT skills of our Junior students. In 2018, all students in the Junior School at Brisbane State High School will be required to supply their own iPad as standard school equipment through a Bring Your Own Device (BYOD) program. Curriculum and assessment tasks for students in these year levels will involve the use of iPads.

Our goal is for students to use iPads as a tool to support key ICT skills in learning:

- Accessing, organising, processing and publishing information
- Working collaboratively
- Demonstrating creativity
- Communicating with peers, teachers and the wider community.

Teachers will utilise iPads, and other ICT devices, to facilitate deeper engagement in learning and higher-order thinking. These processes, which align with the Australian Curriculum ICT General Capabilities, move students away from seeing ICT devices as a tool for researching, emailing and typing assessment to being catalysts for further knowledge exploration, collaboration and skill development.

The iPad has the varied functionality that will allow students to consume information as well as produce information in a mobile form through:

- The rich combination of resources that are available 24/7. Innovative teaching and learning tools and

materials are being developed and will continue to be released as we move forward.

- A wide range of classroom apps and tools as part of the ever-evolving digital platform for learning.
- Textbooks available on the iPad in iBook format. This not only alleviates the need to carry heavy textbooks in their school bag, it provides on-demand access to these rich resources.

Preferred device specifications and further information about this program, including Frequently Asked Questions, Cyber-safety resources and iPad help documents, can be found on our website in the Students Resources section of the Support and Resources Tab, or follow this link: <https://brisbaneshs.eq.edu.au/Supportandresources/Studentresources/Pages/default.aspx>

All students are to comply with the *Student Learning Expectations for iPads agreement*, which was signed by students and parents as part of the enrolment process. Specifically, students are reminded that their safety and the safety of their devices remain the responsibility of students and any actions which do not comply with the agreement will be managed according to the school's Responsible Behaviour Plan. Furthermore, students are to ensure that their use of devices does not interfere with their learning or the learning of others, and that their iPad is always charged, available and ready for use in the classroom as required, including the ability for the student to access relevant applications.

# Senior course readiness criteria and prerequisites

When making choices for Year 10, we apply readiness criteria. These readiness criteria are aligned to the prerequisites for Year 11 and 12 and should be used to plan Senior pathways. The readiness criteria are designed to support students to use evidence of their learning when making decisions about Year 10 courses. Students will have an opportunity in Semester 1 of Year 10 to demonstrate they can achieve the Year 11 and 12 course prerequisites.

When planning your Senior pathway, be aware that Brisbane State High School applies prerequisites to Year 11 and 12 subjects. Prerequisites are applied to ensure students select courses in which they have the most capability to be successful. Note that students should demonstrate at least a C standard in English to undertake any General course in Year 11, to ensure success.

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Learning Area	Senior Course	General/ Applied/ Additional Learning Option	Prep Readiness Criteria – applied when selecting a subject to study at the commencement of Year 10	Prerequisite – applied when confirming course selection at SET Plan, Semester 1
Business, Innovation & Design	Accounting	General	C in Year 9 English	C in Year 10 Prep Accounting
	Business	General	C in Year 9 English	C in Year 10 Prep Business
	Design	General	C in Year 9 English	C in Year 10 Prep Design
	Digital Solutions	General	C in Year 9 English	C in Year 10 Prep Digital Solutions
	Engineering	General	C in Year 9 English C in Year 9 Mathematics	C in Year 10 Prep Engineering C in Year 10 Prep Mathematical Methods
	Legal Studies	General	C in Year 9 English	C in Year 10 Prep Legal Studies
	Foundation Certificate Certificate II in Furniture Making Pathways	Additional Learning Option	Completion of Year 9 English	Completion of Foundation Certificate Course
	Foundation Certificate Certificate II Engineering Pathways – Manufacturing	Additional Learning Option	Completion of Year 9 English	Completion of Foundation Certificate Course
	Foundation Certificate Certificate III Business	Additional Learning Option	Completion of Year 9 English	Completion of Foundation Certificate Course
	Foundation Certificate Certificate IV Crime and Justice	Additional Learning Option	C in Year 9 English	Completion of Foundation Certificate Course
	Foundation Certificate Diploma of Business	Additional Learning Option	C in Year 9 English	Completion of Foundation Certificate Course
English	English	General	C in Year 9 English	C in Year 10 Prep English
	Literature	General	C in Year 9 English	C in Year 10 Prep Literature
	Essential English	Applied	Completion of Year 9 English	Completion of a Year 10 English course
	English Extension (Year 12 only)	General	Not applicable	B in Year 11 English or Literature

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Learning Area	Senior Course	General/ Applied/ Additional Learning Option	Prep Readiness Criteria – applied when selecting a subject to study at the commencement of Year 10	Prerequisite – applied when confirming course selection at SET Plan, Semester 1
Health and Physical Education	Health Education	General	C in Year 9 English	C in Year 10 Prep Health Education
	Physical Education	General	C in Year 9 English	C in Year 10 Prep Physical Education
	Certificate IV Fitness	Additional Learning Option	Completion of Year 9 English	Completion of Prep Fitness Year 10 Course
Humanities	Ancient History	General	C in Year 9 Humanities	C in Year 10 Prep Ancient History
	Economics	General	C in Year 9 Humanities C in Year 9 Mathematics	C in Year 10 Prep Economics
	Geography	General	C in Year 9 Humanities	C in Year 10 Prep Geography
	Modern History	General	C in Year 9 Humanities	C in Year 10 Prep Modern History
	Philosophy and Reason	General	C in Year 9 Humanities	C in Year 10 Prep Philosophy and Reason
	Social and Community Studies	Applied	Completion of Year 9 English	Completion of a Year 10 English course
Languages	Chinese	General	C in Year 9 Chinese across both semesters of study	C in Year 10 Prep Chinese
	French	General	C in Year 9 French across both semesters of study	C in Year 10 Prep French
	Italian	General	C in Year 9 Italian across both semesters of study	C in Year 10 Prep Italian
	Japanese	General	C in Year 9 Japanese across both semesters of study	C in Year 10 Prep Japanese
	German	General	C in Year 9 German across both semesters of study	C in Year 10 Prep German
	Spanish	General	C in Year 9 Spanish across both semesters of study	C in Year 10 Prep Spanish

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Learning Area	Senior Course	General/ Applied/ Additional Learning Option	Prep Readiness Criteria – applied when selecting a subject to study at the commencement of Year 10	Prerequisite – applied when confirming course selection at SET Plan, Semester 1
Mathematics	General Mathematics	General	C in Year 9 Mathematics	C in Year 10 Prep General Mathematics
	Mathematical Methods	General	B in Year 9 Mathematics or C in Year 9 Mathematics Extension	C in Year 10 Prep Mathematical Methods
	Specialist Mathematics	General	B in Year 9 Mathematics and selection of Mathematical Methods	C in Year 10 Prep Specialist Mathematics
	Essential Mathematics	Applied	Completion of Year 9 Mathematics	Completion of a Year 10 Mathematics course
Science	Biology	General	C in Year 9 Science C in Year 9 English	C in Year 10 Prep Biology C in Year 10 Prep English
	Chemistry	General	C in Year 9 Mathematics C in Year 9 English B in Year 9 Science	C in Year 10 Prep Mathematical Methods C in Year 10 Prep English C in Year 10 Prep Chemistry
	Physics	General	B in Year 9 Mathematics C in Year 9 English B in Year 9 Science	B in Year 10 Prep Mathematical Methods C in Year 10 Prep English C in Year 10 Prep Physics
	Psychology	General	B in Year 9 Science C in Year 9 English	C in Year 10 Prep Psychology C in Year 10 Prep English
The Arts	Dance	General	C in Year 9 English	C in Year 10 Prep Dance
	Drama	General	C in Year 9 English	C in Year 10 Prep Drama
	Music	General	C in Year 9 English	C in Year 10 Prep Music
	Music Extension Senior Pathway (Year 12 only)	General	B in Year 9 Music Extension A in Year 9 Music	B in Year 11 Music
	Film, Television and New Media	General	C in Year 9 English	C in Year 10 Prep Film, Television and New Media
Visual Art	General	C in Year 9 English	C in Year 10 Prep Visual Art	

#### Year 11 and 12 students:

- MUST study either English, Literature OR Essential English; students can do both English and Literature if desired
- MUST study either Essential Mathematics, General Mathematics OR Mathematical Methods
- MUST study six subjects in both Year 11 and Year 12
- CHOOSE any combination of six subjects (including English and Maths choices). Three additional electives should also be listed in order of preference
- STUDENTS wanting to study Specialist Mathematics must also study Mathematical Methods
- RECOMMENDED: Students wanting to study Physics are strongly encouraged to study Mathematical Methods

**Every effort will be made to ensure that student preferences are accommodated, subject to student numbers and timetable constraints.**

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