

# Subject Guide Year 10

# CONTENTS

Guidelines.....	6
Career.....	6
Choosing Subjects.....	6
School Subjects.....	6
Assistance.....	6
Browns Plains State High School Pathways.....	7
BYOD.....	8
Laptop Lockers.....	8
Senior School Opportunities.....	8
Year 10 Subjects by Learning Area.....	9
English.....	10
Literature.....	10
English.....	11
Essential English.....	12
Health and Physical Education.....	13
Health and Physical Education.....	13
Humanities and Social Sciences.....	14
Ancient and Modern History.....	14
Civics and Citizenship.....	15
Economics and Business.....	16
Geography.....	17
Mathematics.....	18
Mathematics.....	18
Essential Mathematics.....	19
Specialist Mathematics Preparation.....	20
Science.....	21
Biology and Psychology.....	21
Chemistry and Physics.....	22
General Science.....	23
Technologies.....	24
Hospitality Practices.....	24
Design and Industry.....	26
Design and Engineering.....	27
Digital and Computer Aided Drafting (CAD) Technologies.....	28
The Arts.....	29
Drama.....	29
Media Arts.....	30
Music.....	31
Visual Arts.....	32
Languages.....	33
Japanese.....	33

## Guidelines

This booklet has been compiled to assist parents and students to make appropriate decisions about subject choices for Year 10. At Browns Plains State High School Year 10 is a key year of transition, being the first in the Senior Phase of Learning. It is important to choose Year 10 subjects wisely, as many are highly recommended for further study in Years 11 and 12.

## Career

At this stage, it is helpful to have some ideas about possible career choices, even though the student may change plans or review decisions during Year 10. If they are uncertain about their future career goals at present, then select subjects that will keep several career options open to them.

The following resources are available to provide the student with information about occupations and the subjects and courses needed to gain entry:

- QTAC courses and institutes: <https://www.qtac.edu.au/courses-institutions>
- QTAC Tertiary prerequisites, assumed knowledge and recommended study: <https://www.qtac.edu.au/student-resources/year-10>
- My Futures: <https://myfuture.edu.au/>
- Queensland TAFE Handbook: <https://tafeqld.edu.au/>
- Job Outlook and Labour Market: <https://labourmarketinsights.gov.au/>
- Australian Government Job Jump Start: <https://www.jobjumpstart.gov.au/>

## Choosing Subjects

It is important to choose subjects carefully as their decisions may affect the types of occupations available to them in the future, their success at school and their attitude towards education. As an overall plan, it is suggested that students choose subjects:

- They enjoy and are good at
- In which they have achieved positive results
- Which reflect their interests and abilities
- Which help them reach their career and employment goals
- Which will develop skills, knowledge and attitudes useful throughout their life

It is important to remember students are an individual, and that their particular needs and requirements in subject selection will be quite different from those of other students. This means that it is unwise to either take or avoid a subject because:

- Someone told them that they will like or dislike it
- Their friends are or are not taking it
- They like or dislike the teacher

## School Subjects

English and Mathematics are compulsory subjects that will be studied by all students. Students will need to select four (4) other subjects to study; at least one (1) of which must be a Science elective.

Take the following steps to ensure the student understands the content and requirements of each subject:

- Read all subject information outlined in this booklet provided by the school.
- Speak to Heads of Department (HOD) and teachers of each subject and students who are studying the subject to further their understanding.
- Listen carefully at the subject selection information sessions.

## Assistance

If the student needs further guidance and support in their subject selection, please see the teachers, Year Level Coordinator, Guidance Officer or HODs for assistance.

# Browns Plains State High School Pathways

**Year 10 Subjects**  
**Mathematics and English + 4 Electives**

**Academic**  
(Year 11 & 12)

**Student studies appointed Mathematics and English**  
Plus  
4 other course of study usually consisting of General subjects

**NO** access to School Based Traineeship or Apprenticeship

QCE attainment Senior Statement

ATAR Eligible

Tertiary Entrance (eg University) with ATAR result

**Personalised**  
(Year 11 & 12)

**Student studies appointed Mathematics and English**  
Plus  
4 other courses of study usually consisting of Applied or VET subjects

Access to School Based Traineeships or Apprenticeship

QCE Attainment Senior Statement

Vocational Education and Training, Tertiary Entrance (eg TAFE) OR Work

Possible ATAR Eligibility

# BYOD



Information and Communication Technology (ICT) is integral to learning and 21<sup>st</sup> Century Skills. The use of ICTs can accelerate, enable, improve and transform student learning in all key learning areas and phases of education. Through use of ICTs, teachers can engage the digital generation, improve individual learning opportunities, spark innovation and enhance pedagogy.

**Browns Plains State High School has adopted the Bring Your Own Device (BYOD) model for computers and other personal electronic devices. It is mandatory that students bring their own device to school.**

Please refer to the school website for more information and minimum BYOD specifications (<https://brownsplainsshs.eq.edu.au/curriculum/bring-your-own-device>)

# LAPTOP LOCKERS




School laptop lockers are available for students to hire to secure their valuables including their BYOD. The laptop lockers will provide students with a secure space of their own. It will be their responsibility to care for and maintain that space. Students will also need to develop effective time management skills, as access to their lockers will only be allowed before and after school, and during lunch breaks. They will need to ensure they think ahead and plan their day so they are not late to class.

Information about hiring a school laptop locker can be collected from the Office.

# SENIOR SCHOOL OPPORTUNITIES

By entering into year 10, eligible students will be provided some senior schooling opportunities, these include but are not limited to:

	<p>In semester 1, students will have the opportunity to complete a week's worth of work experience. Details will be provided at the start of next year.</p> <p>NOTE: Students will need to source their own business/organization to complete the work experience at.</p>
	<p>The program is organised by TAFE Qld and is completed 1 day a week for 10 weeks. Students will attend TAFE and have a taster at different trades. For example automotive, engineering, plumbing, carpentry, flooring. Details will be emailed to students when it is released for 2024.</p>
	<p>School Based Traineeship or Apprenticeship. When you are in year 10 check emails from Ms Jackson. She emails all students with opportunities around traineeships and apprenticeships. You can also see her in Senior Schooling and let her know of your interests in one of these opportunities.</p>

# Year 10 Subjects by Learning Area

## English

### Core

- English
- Essential English
- Literature

## Science

### Elective (One must be selected)

- Biology and Psychology
- Chemistry and Physics
- General Science

## Health and Physical Education

### Elective

- Health and Physical Education

## Technologies

### Elective

- Design and Industry Technologies
- Digital and CAD Technologies

## Humanities and Social Sciences

### Elective

- History
- Civics and Citizenship
- Economics and Business
- Geography

## The Arts

### Elective

- Drama
- Media Arts
- Music
- Visual Arts

## Mathematics

### Core

- Mathematics
- Essential Mathematics

### Elective

- Specialist Mathematics Preparation

## Languages

### Elective

- Japanese

# English

---

## Literature

**Subject type:** Core

**Head of Department:** Ms Renee Camilleri  
[rcami17@eq.edu.au](mailto:rcami17@eq.edu.au)

**Subject Description:** The Year 10 program builds on analytical and creative skills acquired by students during their first three years at high school. Of important note is the difference between General English and Literature being that the latter only utilises the two genres of analytical and imaginative (there is no persuasion in this course) and is very heavily text based. The work is designed to challenge students in these areas while acting as a transition into Senior Literature. Units within the course work involve students evaluating and creating perspectives of people, times and places through: a satirical novel, poetry, film and a play (Shakespeare).

**Units of Work:**

Unit One:	Analytical written: Monsters and Man ( <i>Frankenstein</i> )
Unit Two:	Creative written: Reimagined Perspectives
Unit Three:	Analysis of film critiques: <i>Evolution of Vampires</i>
Unit Four:	Creative spoken: <i>Hamlet or Macbeth</i>

**Assessment Modes:** Spoken (1), written (1), examinations (2).

**Entry Requirements:** Students will be identified to participate in this General Literature preparation course. Students must receive an A in Year 9 English to enter the course.

**Further Information:** English is a compulsory subject for students from Year 7 to 12. A pass in this subject remains an essential prerequisite for the literacy component of the Queensland Certificate of Education (QCE) as well as entry into most tertiary institutions and apprenticeship courses. Your placement in Year 11 Literature, General English or Essential English will be dependent on your performance in the Year 10 English course.

The analytical, writing and oral communication skills acquired throughout the English course are highly beneficial to all career paths.

Australian Curriculum – English

<https://www.australiancurriculum.edu.au/f-10-curriculum/english/>

Queensland Curriculum and Assessment Authority – English

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/english>

# English

**Subject type:** Core

**Head of Department:** Ms Renee Camilleri  
[rcami17@eq.edu.au](mailto:rcami17@eq.edu.au)

**Subject Description:** The Year 10 program builds on analytical, persuasive and creative skills acquired by students during their first three years at high school. The work is designed to challenge the students while acting as a transition into senior General English. Units within the course work involve students evaluating and creating perspectives of people, times and places through: novels, satire, poetry, drama (Shakespeare) and the media.

**Units of Work:**

- Unit One: Persuasive spoken: Media Representations
- Unit Two: Creative written: Shakespeare
- Unit Three: Creative written on novel study: *Hunger Games or Scythe*
- Unit Four: Analysis and comparison of novel: *Hunger Games or Scythe and film.*

**Assessment Modes:** Spoken, written, examinations.

**Entry Requirements:** Students will be identified to participate in this General English preparation course. Students must receive a C+ or above in Year 9 English to enter the course.

**Further Information:** English is a compulsory subject for students from Year 7 to 12. A pass in this subject remains an essential prerequisite for the literacy component of the Queensland Certificate of Education (QCE) as well as entry into most tertiary institutions and apprenticeship courses. Your placement in Year 11 General English or Essential English will be dependent on your performance in Year 10 English.

The analytical, writing and oral communication skills acquired throughout the English course are highly beneficial to all career paths.

Australian Curriculum – English  
<https://www.australiancurriculum.edu.au/f-10-curriculum/english/>

Queensland Curriculum and Assessment Authority – English  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/english>



## Essential English

**Subject type:** Core

**Head of Department:** Ms Renee Camilleri  
[rcami17@eq.edu.au](mailto:rcami17@eq.edu.au)

**Subject Description:** The Year 10 Essential English program builds on analytical, persuasive and creative skills acquired by students during their first three years at high school. The work is designed to develop foundation knowledge and skills while acting as a transition into Senior Essential English. Units within the course work involve students evaluating and creating perspectives of people, times and places through: novels, media, film and drama.

**Units of Work:**

Unit One:	Analytical written: Film Study
Unit Two:	Creation of perspectives in Shakespeare: <i>Film Adaptation</i>
Unit Three:	Persuasive: Novel Study
Unit Four:	Analytical written: Exam

**Assessment Modes:** Spoken, written, examinations.

**Entry Requirements:** Students will be identified to participate in this Essential English preparation course.

**Further Information:** English is a compulsory subject for students from Year 7 to 12. A pass in this subject remains an essential prerequisite for the literacy component of the Queensland Certificate of Education (QCE).

The analytical, writing and oral communication skills acquired throughout the English course are highly beneficial to all career paths.

Australian Curriculum – English  
<https://www.australiancurriculum.edu.au/f-10-curriculum/english/>

Queensland Curriculum and Assessment Authority – English  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/english>

# Health and Physical Education

---

## Health and Physical Education

**Subject type:** Elective

**Head of Department:** Mr Scott Hansen  
[sfhan0@eq.edu.au](mailto:sfhan0@eq.edu.au)

**Subject Description:** Health and Physical Education provides opportunities for students to develop skills, self-efficacy and dispositions to advocate for, and positively influence, the health and wellbeing of themselves and the communities to which they belong.

Health and Physical Education addresses how contextual factors influence the health, safety, wellbeing and physical activity patterns of individuals, groups and communities. Critical inquiry skills enable students to critique and challenge discrimination, assumptions and stereotypes, and to respond appropriately in a range of contexts.

Integral to Health and Physical Education is the acquisition of movement skills, concepts and strategies that enable students to participate confidently and competently in a range of physical activities.

**Units of Work:**

Unit One:	Ethics and integrity through sport education
Unit Two:	Improving healthy choices
Unit Three:	Strengthening community fitness
Unit Four:	Tactical awareness

**Assessment Mode:** Assessment techniques will include investigation, project-folios and multi-models. Assessment evidence of student performance will be matched to achievement standards for the 9 and 10 band of the Australian Curriculum: Health and Physical Education.

**Entry Requirements:** Interest in participation and engagement in regular physical activity  
Interest in personal health, social justice and advocating for better health.

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring both Health and Physical Education subjects in Year 11 and 12.

Study in this subject can establish an early basis for further education and employment in the fields of health science, public health, health education, allied health, nursing and medical professions.

Australian Curriculum – Health and Physical Education (HPE)  
<https://v9.australiancurriculum.edu.au/teacher-resources/understand-this-learning-area/health-and-physical-education>

Queensland Curriculum and Assessment Authority – HPE  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/health-and-physical-education>

# Humanities and Social Sciences

---

## History

**Subject type:** Elective

**Head of Department:** Ms Devin Suddrey  
[djsud0@eq.edu.au](mailto:djsud0@eq.edu.au)

**Subject Description:** History in Year 10 allows students to enquire into specialised topics based on past events and people. It places the student inquiry at the centre of the learning used to investigate these topics and makes students aware that they can create their own views and make their own decisions about people, societies, cultures, events and ideas. When structured around inquiry-based learning, Year 10 History can offer students a solid grounding and beginning to their senior phase of learning in Modern History.

**Units of Work:**

Unit One:	Holocaust
Unit Two:	World War II in the Asia-Pacific
Unit Three:	The Globalising World
Unit Four:	Rights and Freedoms

**Assessment Mode:** Response to stimulus exams, short response tests and research essays.

**Entry Requirements:** There are no entry requirements for this subject.

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject option:

- Modern History

This subject is particularly important for students interested in exploring tertiary entry or careers in: Architect, journalist, landscape designer, lawyer, teacher, tour guide, travel consultant and writer.

Australian Curriculum – Humanities and Social Science

<https://www.australiancurriculum.edu.au/f-10-curriculum/humanities-and-social-sciences/>

Queensland Curriculum and Assessment Authority – Humanities and Social Science

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/humanities-and-social-sciences>

## Civics and Citizenship

**Subject type:** Elective

**Head of Department:** Ms Devin Suddrey  
[djsud0@eq.edu.au](mailto:djsud0@eq.edu.au)

**Subject Description:** The Civics and Citizenship curriculum develops student understanding of Australia's system of government through comparison with another system of government in the Asian region. Students examine Australia's roles and responsibilities within the international context, such as its involvement with the United Nations. Students also study the purpose and work of the High Court. They investigate the values and practices that enable a democratic society to be sustained.

**Units of Work:**

Unit One:	Fundamental Principles and Processes of Government
Unit Two:	Family Law and Alcohol Fuelled Violence
Unit Three:	Land Rights in Australia
Unit Four:	Social Media and the Law

**Assessment Mode:** Examination (theoretical and practical), written and multimodal assignments.

**Entry Requirements:** There are no entry requirements for this subject.

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Business
- Business Studies
- Diploma of Business
- Legal Studies

This subject is particularly important for students interested in exploring tertiary entry or careers in: Barrister, community legal service (immigration, rental disputes, consumer rights, family conflict etc.), criminologist, diplomat, in-house counsel, judge, lawyer, politician and public relations.

Australian Curriculum – Humanities and Social Science

<https://www.australiancurriculum.edu.au/f-10-curriculum/humanities-and-social-sciences/>

Queensland Curriculum and Assessment Authority – Humanities and Social Science

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/humanities-and-social-sciences>

## Economics and Business

**Subject type:** Elective

**Head of Department:** Ms Devin Suddrey  
[djsud0@eq.edu.au](mailto:djsud0@eq.edu.au)

**Subject Description:** The Economics and Business curriculum gives students the opportunity to further develop their understanding of economics and business concepts by considering Australia's and other countries' economic performance and standard of living. The ways governments manage the economy to improve living standards is explored, along with the reasons why economic performance and living standards differ within and between economies. Students explore the nature of externalities and why the government intervenes to ensure that prices reflect the depletion of resources or costs to society. Students examine the consequences of decisions and the responses of business to changing economic conditions, including the way they manage their workforce.

**Units of Work:**

Unit One:	Managing economic performance and standard of living
Unit Two:	Improving business productivity
Unit Three:	Conscious Consumers
Unit Four:	Business Investigation

**Assessment Mode:** Examination (theoretical and practical), written assignment, presentations and projects.

**Entry Requirements:** There are no entry requirements for this subject.

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Business
- Business Studies
- Diploma of Business
- Legal Studies

This subject is particularly important for students interested in exploring tertiary entry or careers in: Accounting, entrepreneurship and innovation, finance, human resource management, international business, management information systems, marketing and operations management.

Australian Curriculum – Humanities and Social Science

<https://www.australiancurriculum.edu.au/f-10-curriculum/humanities-and-social-sciences/>

Queensland Curriculum and Assessment Authority – Humanities and Social Science

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/humanities-and-social-sciences>

## Geography

**Subject type:** Elective

**Head of Department:** Ms Devin Suddrey  
[djsud0@eq.edu.au](mailto:djsud0@eq.edu.au)

**Subject Description:** Geography in Year 10 allows students to enquire into more specialised topics based on the 'big ideas'. It places the student inquiry at the centre of the learning used to investigate these topics and makes students aware that they can create their own views and make their own decisions about people, societies, cultures, events and ideas. When structured around inquiry-based learning, Year 10 Geography can offer students a solid grounding and preparation for studying this subject in their senior phase of learning.

**Units of Work:** Unit One: Environmental Change and Management:  
- National Parks and Preservation of Natural Environments  
- Management of Biodiversity  
  
Unit Two: Geographies of Human Wellbeing

**Assessment Mode:** Field Reports, Combination Exams and a Data Report.

**Entry Requirements:** There are no entry requirements for this subject.

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject option:  
• Geography

This subject is particularly important for students interested in exploring tertiary entry or careers in: Architect, environmental planner, journalist, landscape designer, teacher, tour guide, travel consultant and writer.

Australian Curriculum – Humanities and Social Science

<https://www.australiancurriculum.edu.au/f-10-curriculum/humanities-and-social-sciences/>

Queensland Curriculum and Assessment Authority – Humanities and Social Science

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/humanities-and-social-sciences>

# Mathematics

---

## Mathematics

**Subject type:** Core

**Head of Department:** Mr Tomasz Dolecki  
[tdole1@eq.edu.au](mailto:tdole1@eq.edu.au)

**Subject Description:** The Year 10 program builds on mathematical skills acquired by students during their first three years at high school. The work is designed to challenge the students while acting as a transition into the senior General Mathematics or Mathematical Methods. Students will be placed into two strands: Core Mathematics and Mathematics Extension. Students are placed in these classes based on their results from the Year 9 Mathematics course.

**Units of Work:**

Unit One:	Trigonometry, geometry, probability, algebra, volume, and area
Unit Two:	Algebra, introduction to functions, polynomials and introduction to proofs

**Assessment Modes:** Investigations, written assignments and examinations.

**Entry Requirements:** Students will be identified to participate in this General Mathematics preparation course.

**Further Information:** Mathematics is a compulsory subject for students from Year 7 to 12. A pass in this subject remains an essential prerequisite for the numeracy component of the Queensland Certificate of Education (QCE).

The numerical skills acquired throughout the Mathematics course are highly beneficial to all career paths.

Australian Curriculum – Mathematics

<https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/>

Queensland Curriculum and Assessment Authority – Mathematics

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/mathematics>

# Essential Mathematics

**Subject type:** Core

**Head of Department:** Mr Tomasz Dolecki  
[tdole1@eq.edu.au](mailto:tdole1@eq.edu.au)

**Subject Description:** The Year 10 Essential Mathematics program builds on mathematical skills acquired by students during their first three years at high school. The work is designed to develop foundation knowledge and skills while acting as a transition into Senior Essential Mathematics. Units within the course work involve students:

- solve practical problems requiring basic number operations
- apply arithmetic operations according to their correct order
- ascertain the reasonableness of answers to arithmetic calculations
- use leading-digit approximation to obtain estimates of calculations
- use a calculator for multi-step calculations
- check results of calculations for accuracy
- recognise the significance of place value after the decimal point
- evaluate decimal fractions to the required number of decimal places
- round up or round down numbers to the required number of decimal places
- apply approximation strategies for calculations

**Units of Work:** Unit One: Number, representing data, graphs  
Unit Two: Managing money, time and motion, and data collection

**Assessment Modes:** Written assignments and examinations.

**Entry Requirements:** Students will be identified to participate in this Essential Mathematics preparation course.

**Further Information:** Mathematics is a compulsory subject for students from Year 7 to 12. A pass in this subject remains an essential prerequisite for the numeracy component of the Queensland Certificate of Education (QCE).

The numerical skills acquired throughout the Mathematics course are highly beneficial to all career paths.

Australian Curriculum – Mathematics

<https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/>

Queensland Curriculum and Assessment Authority – Mathematics

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/mathematics>



## Specialist Mathematics Preparation

**Subject type:** Elective

**Head of Department:** Mr Tomasz Dolecki  
[tdole1@eq.edu.au](mailto:tdole1@eq.edu.au)

**Subject Description:** Year 10 Specialist Mathematics Preparation has been designed to cater for students with strong interest in Mathematics and planning to undertake studies in Specialist Mathematics or Mathematical Methods in Year 11 and 12.

**Units of Work:**

Unit One:	Trigonometry, geometry, quadratics, algebra, volume and area
Unit Two:	Vectors and matrices, introduction to functions, polynomials and introduction to proofs

**Assessment Mode:** Investigations, written assignments and examinations.

**Entry Requirements:** Interest in Mathematics, future career aspirations related to mathematics, business, engineering or science.

**Further Information:** Your placement in Year 11 Mathematical Methods and Specialist Mathematics will be dependent upon your academic performance in Year 10 Mathematics. Students choosing and successfully completing Specialist Mathematics Preparation class will have better chance of being successful in Specialist Mathematics or Mathematical Methods in Year 11 and 12.

Specialist Mathematics Preparation aims to provide additional preparation for Specialist Mathematics and Mathematical Methods in Year 11 and 12, as well as tertiary studies in subjects with high demand in mathematics, especially in the areas of science, medicine, mining and engineering, information technology, mathematics, finance, and business and economics.

Australian Curriculum – Mathematics  
<https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/>

Queensland Curriculum and Assessment Authority – Mathematics  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/mathematics>

# Science

---

## Biology and Psychology

**Subject type:** Elective

**Head of Department:** Mr Dan Klaer  
[dklae3@eq.edu.au](mailto:dklae3@eq.edu.au)

**Subject Description:** Biology is the study of life in its many forms. Students will cover the study of genetics, ecosystems, classification and experimental design. Psychology provides opportunities for students to engage with concepts that explain behaviours and underlying cognitions. Students will examine individual development in the form of the role of the brain, cognitive development, human consciousness and sleep. Students will have the opportunity to develop the analytical skills and understandings needed for senior Biology and Psychology. They will be exposed to assessment techniques unique to senior science. Studying Biology and Psychology will help students foresee the consequences of their own and society's activities on the living world. This will enable them to participate as informed citizens in decision-making processes, the outcomes of which will affect the living world now and in the future.

This senior preparatory course will broaden student's biological and psychology knowledge and understanding and provide opportunities for them to learn fundamental field work skills and basic statistical analysis. It is expected that students studying Biology and Psychology will effectively communicate information and apply investigative and problem-solving skills.

**Units of Work:** Unit One and Two: Biology  
Analysing the links between genetics and evolution  
Exploring the structure and function of cells  
Applying structural similarities in the classification of organisms

Unit Three and Four: Psychology  
Exploring the brain to analyse the links between structure and function.  
Stimulus response and memory processes.  
Social psychology.

**Assessment Modes:** Assessment will include student experiments, research investigations and examinations.

**Entry Requirements:** Students need to have demonstrated a C standard in Year 9 Science.

**Further Information:** This subject is a prerequisite for senior:

- Biology
- Psychology

This subject is particularly important for students interested in exploring tertiary entry or careers in: Dietetics, ecology, education, environment management, forensic science, health/medicine, nursing, physiotherapy, sport science, veterinary, zoology, psychology, sales, human resourcing, teaching, training, social work, health, law, business, marketing and education.

Australian Curriculum – Science  
<https://www.australiancurriculum.edu.au/f-10-curriculum/science/>

Queensland Curriculum and Assessment Authority – Science  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/science>

## Chemistry and Physics

**Subject Type:** Elective

**Head of Department:** Mr Dan Klaer  
[dklae3@eq.edu.au](mailto:dklae3@eq.edu.au)

**Subject Description:** Through studying Chemistry and Physics, students will have the opportunity to develop a greater understanding of the physical science and chemistry in the world around them. This senior preparatory course offers students the opportunity to develop a deeper knowledge of the fundamental concepts of Chemistry and Physics as well as the analytical skills required for senior and beyond.

Chemistry will involve students working individually and with others in practical, laboratory and interactive activities relevant to the theoretical concepts considered in the course. It is expected that students studying Year 10 Chemistry will apply investigative and problem-solving skills, effectively communicate information and understanding and appreciate the contribution that the study of chemistry makes to their understanding of the world.

Physics will give students a means of enhancing their understanding of the forces at play in the world around them. They will develop useful knowledge, skills and be prepared for further study. Working scientifically and enacting scientific inquiries, investigations and experiments will immerse students in both the practical and the conceptual aspects of the discipline.

**Units of Work:** Unit One and Two: Chemistry  
Basic atomic structure, chemical formulas and balancing equations.  
Counting atoms and calculating concentration - moles and molarity.  
Analytical chemistry – Dilutions and volumetric analysis.

Unit Three and Four: Physics  
The Physics tool box - developing calculation and measurement skills.  
Analysing the motion of objects mathematically.  
Understanding the forces involved in and the relationship between electricity and magnetism.

**Assessment Modes:** Assessment will include student experiments, research investigations and examinations.

**Entry Requirements:** Students need to have demonstrated a C standard in Year 9 Science.

**Further Information:** This subject is a prerequisite for senior:

- Chemistry
- Physics

This subject is particularly important for students interested in exploring tertiary entry or careers in: Architecture, astronomy, chemistry, pharmacology, toxicology, food science, sport science, geology, electrician, product development, engineering, scientific research, forensic science and health/medicine/radiology.

Australian Curriculum – Science  
<https://www.australiancurriculum.edu.au/f-10-curriculum/science/>

Queensland Curriculum and Assessment Authority – Science  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/science>

## General Science

**Subject Type:** Elective

**Head of Department:** Mr Dan Klaer  
[dklae3@eq.edu.au](mailto:dklae3@eq.edu.au)

**Subject Description:** In science, students analyse how the periodic table organises elements and use it to make predictions about the properties of elements. They explain how chemical reactions are used to produce particular products and how different factors influence the rate of reactions. They explain the concept of energy conservation and represent energy transfer and transformation within systems. They apply relationships between force, mass and acceleration to predict changes in the motion of objects. Students describe and analyse interactions and cycles within and between Earth's spheres. They evaluate the evidence for scientific theories that explain the origin of the universe and the diversity of life on Earth. They explain the processes that underpin heredity and evolution. Students analyse how the models and theories they use have developed over time and discuss the factors that prompted their review.

**Units of Work:**

Unit One:	DNA/genetics - transmission of heritable characteristics The theory of evolution by natural selection explains the diversity of living things and is supported by a range of scientific evidence.
Unit Two:	Atomic structure and properties of elements in the Periodic Table Chemical reactions and planning investigations.
Unit Three:	Energy conservation - energy transfers and transformations The motion of objects predicted using the laws of physics.
Unit Four:	Features of the universe – galaxies, stars and solar systems, and the Big Bang theory.

**Assessment Modes:** Assessment will include student experiments, research investigations and examinations.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Science in Practice

This subject is particularly important for students interested in exploring tertiary entry or careers where a basic scientific understanding would be beneficial.

Australian Curriculum – Science

<https://www.australiancurriculum.edu.au/f-10-curriculum/science/>

Queensland Curriculum and Assessment Authority – Science

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/science>

# Technologies

## Hospitality Practices

**Subject Type:** Elective

**Head of Department:** Mr Bevin Pillay  
[bpill9@eq.edu.au](mailto:bpill9@eq.edu.au)

**Subject Description:** Hospitality is a great starting point for young people providing pathways into various hospitality setting including cafes, coffee shops, hotels, motels, catering operations, restaurants and more. It teaches students teamwork, conflict resolution and customer service which is the basis of nearly every role in any industry.

Hospitality Practices includes the study of industry practices and production processes through real-world related application in the hospitality industry and the context emphasises the food and beverage sector, which includes food and beverage production and service.

**Structure:** Hospitality Practices is a four-unit course of study. This syllabus contains QCAA-developed units as options for schools to select from to develop their course of study.

Unit option	Unit title
Unit option A	Culinary trends
Unit option B	Bar and barista basics
Unit option C	In-house dining
Unit option D	Casual dining
Unit option E	Formal dining
Unit option F	Guest services

**Assessment:** Students complete two assessment tasks for each unit. The assessment techniques used in Hospitality Practices are:

Technique	Description
Practical demonstration	Students produce and present an item related to the unit context in response to a brief.
Project	Students plan and deliver an event incorporating the unit context in response to a brief.
Investigation	Students investigate and evaluate practices, skills and processes.

**Elective units:** SITXFSA005 Use hygienic practices for food safety  
SITHCCC0025 Prepare and present sandwiches  
SITXCOM006 Source and present information

**Assessment Mode:** Practical performance, planning, extended response, examinations, functions, folios.

**Entry Requirements:** There are no entry requirements for this subject (except USI number)

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Certificate II in Hospitality/Certificate III in Hospitality

This subject is particularly important for students interested in exploring tertiary entry or careers in: Chef, dietician, food scientist, food stylist, food technologist, food critic, food journalist, industrial designer, health scientist, nutritionist, teacher/public health educator, restaurateur/function manager

Cost: Free

Duration: 12 months

Australian Curriculum – Technologies

<https://www.australiancurriculum.edu.au/f-10-curriculum/technologies/>

Queensland Curriculum and Assessment Authority – Technologies

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/technologies>

## Design and Industry

**Subject Type:** Elective

**Head of Department:** Mr Bevin Pillay  
[bpill9@eq.edu.au](mailto:bpill9@eq.edu.au)

**Subject Description:** Design and Industry directly relates to our Applied and Certificate courses in senior, and indirectly to the General courses.

This subject gives students the opportunity to consider how solutions that are created now will be used in the future. Student will develop industry related skills on project management, systems thinking, design thinking, computational thinking and safety using Industry related practical activities.

This subject is a hands on practical subject utilising materials such as timber, metal, plastics and other materials. Students will have the opportunity to utilise traditional tools and equipment, and machinery both physically and computer controlled.

**Units of Work:** Unit One: Manufacturing processes with a timber bias  
Unit Two: Manufacturing processes with a metal bias  
Unit Three: Manufacturing using computer operated input

**Assessment Mode:** Portfolios and Projects

**Entry Requirements:** There are no entry requirements for this subject.

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Building and Construction Skills – Certificate I in Construction
- Certificate II in Engineering

This subject is a good companion subject for those choosing Technology subjects Design and Engineering or Digital/CAD

This subject is particularly important for students interested in exploring trade work or industry related tertiary entry. This includes apprenticeships and traineeships, labourer, other industry related work, TAFE and university.

This subject will also give students a base knowledge leading into tertiary education such as: architecture, designer, engineer, environmental planner, landscape designer, and industrial designer.

Australian Curriculum – Technologies

<https://www.australiancurriculum.edu.au/f-10-curriculum/technologies/>

Queensland Curriculum and Assessment Authority – Technologies

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/technologies>

## Design and Engineering

**Subject Type:** Elective

**Head of Department:** Mr Bevin Pillay  
[bpill9@eq.edu.au](mailto:bpill9@eq.edu.au)

**Subject Description:** Design and Engineering directly relates to our General courses in senior. Students will develop practical and theoretical skills related to our Senior Design and Senior Engineering subjects.

Students learn to explore complex, open-ended problems and develop design and engineered solutions.

Students focus on the application of design thinking to envisage creative products, services and environments in response to human needs, wants and opportunities.

Students will be introduced to mechanics, materials science and control technologies through real-world engineering contexts and develop solutions using sketching, drawing, CAD, low-fidelity prototyping skills and projects.

**Units of Work:** Unit One: Design and Engineering essential core knowledge  
Unit Two: Design in process and practical application  
Unit Three: Engineering fundamentals and practical application

**Assessment Mode:** Portfolios and Projects

**Entry Requirements:** Maths SMP and General English

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior General subject options:

- Design
- Engineering

This subject is a good companion subject for those choosing year 10

- Maths (Specialist Mathematics Preparation)
- Science (Chemistry and Physics)

Other Technology subjects to consider that may help with foundation skills depending on your career directions are:

- Design and Industry
- Digital/CAD
- Hospitality Studies

This subject is particularly important for students interested in exploring tertiary entry or careers in: Architecture, engineering degrees, landscape designer, teacher, fashion designer, graphic designer, industrial designer, interior designer, sign writer and some mathematics and science fields.

Australian Curriculum – Technologies

<https://www.australiancurriculum.edu.au/f-10-curriculum/technologies/>

Queensland Curriculum and Assessment Authority – Technologies

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/technologies>



## Digital and Computer Aided Drafting (CAD) Technologies

**Subject Type:** Elective

**Head of Department:** Mr Bevin Pillay  
[bpill9@eq.edu.au](mailto:bpill9@eq.edu.au)

**Subject Description:** Digital and CAD Technologies provides students with practical opportunities to use digital design thinking and to be innovative developers of digital solutions and knowledge.

Students develop a knowledge and understanding of information systems, enabling students to be creative and discerning decision-makers.

Students will be provided opportunities to use database management software to store, sort and analyse data. Using various software applications, students will design and create 3D models and produce products using 3D manufacturing processes (CAM), such as 3D printing, laser cutting and CNC router.

**Units of Work:**

Unit One:	Applications and Data (Microsoft Access)
Unit Two:	Creative 3D Modelling (Blender)
Unit Three:	Computer Aided Drafting and Manufacturing (Inventor)

**Assessment Mode:** Examination (theoretical and practical), written assignment and project.

**Entry Requirements:** There are no entry requirements for this subject.

**Prior Knowledge:** There is no prior knowledge or skills required to complete this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Information and Communications Technology
- Design
- Engineering
- Certificate III in Engineering CAD

This subject is particularly important for students interested in exploring tertiary entry or careers in: Architecture, engineering, database administration, game designer, graphic designer, helpdesk operation, network engineer, programmer, project manager, system analyst, technician, and web developer.

This subject is a good companion subject for those choosing year 10

- Design and Industry

Australian Curriculum – Technologies

<https://www.australiancurriculum.edu.au/f-10-curriculum/technologies/>

Queensland Curriculum and Assessment Authority – Technologies

<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/technologies>

# The Arts

---

## Drama

**Subject type:** Elective

**Head of Department:** Mrs Keryn Clark  
[kdora16@eq.edu.au](mailto:kdora16@eq.edu.au)

**Subject Description:** The Arts are an empowering and engaging intersection of lateral thought and practice. They explore the human experience and challenge our understandings by encouraging and provoking new ways of seeing, thinking and doing. Drama investigates, communicates and embodies stories, experiences, emotions and ideas. It allows student to look to the past and explore inherited traditions to inform how the citizens of a global world will shape the future. Year 10 Drama provides students with literacy, numeracy and 21<sup>st</sup> century skills, which will prepare students for senior subjects and assist students to live and work successfully in the 21<sup>st</sup> century. Students will learn how to understand, use, analyse and evaluate drama ideas and concepts, while learning communication skills, self-esteem, imagination, self-discipline and movement skills.

**Units of Work:**

Unit One:	Australian Theatre
Unit Two:	Collage Drama
Unit Three:	Gothic Theatre
Unit Four:	Directing

**Assessment Mode:** *Performance:* synthesise and communicate dramatic meaning through the elements of drama and skill of acting.  
*Forming:* manipulate and synthesise dramatic languages to create dramatic action and meaning.  
*Responding:* evaluate and justify the use of dramatic languages to communicate dramatic meaning.

**Entry Requirements:** There are no entry requirements for this subject.

**Prior Knowledge:** It is recommended that students have some foundational knowledge or a strong interest in basic drama technique.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Drama
- Drama in Practice
- Media Arts in Practice

This subject is particularly important for students interested in exploring tertiary entry or careers in: broadcast presenter, casting director, creative curator, comedian, company manager, dialect coach, director, drama journalist/critic, drama teacher, dramatic coach, events and festivals project director, lighting designer, management performance coach, puppeteer, set designer, screen writer, scriptwriter, stage management, talent agent, television producer, theatre director and theatre stage manager.

Australian Curriculum – The Arts  
<https://www.australiancurriculum.edu.au/f-10-curriculum/the-arts/>

Queensland Curriculum and Assessment Authority – The Arts  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/the-arts>

## Media Arts

**Subject type:** Elective

**Head of Department:** Mrs Keryn Clark  
[kdora16@eq.edu.au](mailto:kdora16@eq.edu.au)

**Subject Description:** 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 alternate ways of seeing, thinking and doing. Media students create and share media artworks that convey meaning and express insight through a range of forms such as film, television, print and web-based media. Year 10 Media provides students with literacy, numeracy and 21<sup>st</sup> century skills, which will prepare students for senior subjects and assist students to live and work successfully in the 21<sup>st</sup> century. Students will learn about planning, shooting and editing media forms through a range of technical and creative roles.

**Units of Work:**

Unit One:	Media Skills
Unit Two:	Music Videos
Unit Three:	Vlog Review
Unit Four:	Genre Mashup

**Assessment Mode:** Exam: identifying and interpreting media elements and concepts.  
Project: selection and application of a range of creative, expressive and technical skills to produce a media artwork.  
Film Review: analysing, interpreting, justifying and evaluating media works.

**Entry Requirements:** There are no entry requirements for this subject. A strong interest in the creative industries would be recommended.

**Prior Knowledge:** There are no prior knowledge requirements for this subject.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Media Arts in Practice
- Visual Arts in Practice
- Drama

This subject is particularly important for students interested in exploring tertiary entry or careers in: actor, advertising professional, animator, audio-visual technician, camera operator, costume designer, director, film critic, film/television producer, graphic designer, journalist, media producer, media teacher, multimedia designer, photographer and visual artist.

Australian Curriculum – The Arts  
<https://www.australiancurriculum.edu.au/f-10-curriculum/the-arts/>

Queensland Curriculum and Assessment Authority – The Arts  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/the-arts>

# Music

**Subject type:** Elective

**Head of Department:** Mrs Keryn Clark  
[kdora16@eq.edu.au](mailto:kdora16@eq.edu.au)

**Subject Description:** The Arts are an empowering and engaging expression of skill and imagination realised through the intersection of practice with creative and critical thinking. In an age of change, Music has the means to prepare students for a future of unimagined possibilities, with highly transferable skills and the capacity for flexible thinking and doing. Year 10 Music provides students with literacy, numeracy and 21st century skills, which will prepare students for senior subjects and assist students to live and work successfully in the 21st century. Students will learn how to understand, manipulate, analyse and evaluate music elements and concepts, as well as gain a greater understanding of musical genres that have developed through western society and other cultural backgrounds.

**Units of Work:** Unit One: Pop and Rock  
Unit Two: Storytelling

**Assessment Mode:** Music Theory Exams: identifying and interpreting music elements and concepts.  
Performance: demonstrating technical skills and interpreting music elements.  
Composition: selection and manipulation of musical elements in order to create music.  
Musicology: identify, analyse and evaluate music to justify a viewpoint.

**Entry Requirements:** Students are required to have some foundational skills on vocals or a musical instrument.

**Prior Knowledge:** In order to meet the standards required in Year 10 Music, it is recommended that students have foundational knowledge in basic music concepts including music reading, notation and performance.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject option:

- Music
- Music in Practice

This subject is particularly important for students interested in exploring tertiary entry or careers in: artist manager, composer, conductor, creative directors, creative entrepreneur, instrumental teacher, music curator, music director, music editor, music lawyer, music teacher, music therapist, music video clip director, orchestra manager, performer, producer, record producer, recording engineer, sound designer, stage manager, studio manager, tour manager and university music academic.

Australian Curriculum – The Arts  
<https://www.australiancurriculum.edu.au/f-10-curriculum/the-arts/>

Queensland Curriculum and Assessment Authority – The Arts  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/the-arts>

# Visual Arts

**Subject type:** Elective

**Head of Department:** Mrs Keryn Clark  
[kdora16@eq.edu.au](mailto:kdora16@eq.edu.au)

**Subject Description:** 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 alternate ways of seeing, thinking and doing. The Visual Arts provides opportunities to construct knowledge and communicate personal interpretations by working as both artist and audience. In making artworks, students use their imagination and creativity to innovatively solve problems and experiment with visual language and expression. Year 10 Visual Art provides students with literacy, numeracy and 21st century skills, which will prepare students for senior subjects and assist students to live and work successfully in the 21st century. Through the study of different cultural and historical contexts, students develop creative practice that involves hand, eye, intellect and imagination in making practical and aesthetic decisions along with Art making skills in a variety of disciplines.

**Units of Work:**

Unit One:	Fantasy and Surrealism
Unit Two:	The Scape
Unit Three:	Printmaking
Unit Four:	Transitions (Introduction to Senior)

**Assessment Mode:** Making: Creation of Bodies of Work: Reflecting, Developing, Researching and Resolving.  
Appraising: Responding through the use of visual language to provide individual viewpoints.

**Entry Requirements:** There are no entry requirements for this subject, however, Year 9 studies in Art would be beneficial.

**Prior Knowledge:** It is recommended that students have foundational knowledge in basic art concepts including art terminology, mediums and practices. Students are required to invest additional time outside of class to achieve positive results.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject options:

- Media Arts in Practice
- Visual Arts in Practice

This subject is particularly important for students interested in exploring tertiary entry or careers in: architect, art project manager, art gallery and museum careers, branding specialist, fashion designer, graphic designer, industrial designer, interior designer, sign writer, stage designer, textiles designer, visual artist, visual art teacher, web designer and visual designer.

Australian Curriculum – The Arts  
<https://www.australiancurriculum.edu.au/f-10-curriculum/the-arts/>

Queensland Curriculum and Assessment Authority – The Arts  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/the-arts>

# Languages

---

## Japanese

**Subject type:** Elective

**Head of Department:** Mr Scott Hansen  
[sfhan0@eq.edu.au](mailto:sfhan0@eq.edu.au)

**Subject Description:** The study of Japanese develops our students' ability to understand and use the language, but also develops skills on understanding other cultures. The studying of Japanese has never been more relevant for young Australians.

The course aims to:

- equip students with the skills and knowledge required to operate in an increasingly linguistically and culturally diverse, global workplace
- enable students to become competent and confident speakers of the Japanese language
- develop an understanding and appreciation of the culture, way of life, and the peoples of Japan, thus becoming aware of how different cultures view the world

**Units of Work:**

Unit One:	Hobbies and free time
Unit Two:	Eating at a restaurant
Unit Three:	Travel
Unit Four:	Popular culture

**Assessment Mode:** Japanese assesses the four macro skills of listening, speaking, reading and writing. Each semester an assignment will be set which will use one or more of these skills.

**Entry Requirements:** In order to meet the standards required in Japanese, it is recommended but not a requirement that students would have completed Japanese in Year 9 and have developed foundational knowledge from previous years of study.

**Further Information:** This subject provides a good foundation for students interested in exploring the following Senior subject option:

- Japanese

Japanese is also beneficial for students interested in the following career pathways: Business, Engineering, Media and Entertainment, Tourism and Hospitality, Fashion and Design, Travel, Health, Education, Environmental Sciences, Defence Forces, Aid Agencies, National and International Security, Diplomacy, Customs and Immigration, Disaster and Aid Relief and International Relations, Research and Teaching.

Australian Curriculum – Languages (Japanese)  
<https://www.australiancurriculum.edu.au/f-10-curriculum/languages/japanese/>

Queensland Curriculum and Assessment Authority – Languages (Japanese)  
<https://www.qcaa.qld.edu.au/p-10/aciq/version-8/learning-areas/languages/japanese>

