

WAIKERIE HIGH SCHOOL

2022

SUBJECT HANDBOOK

YEAR 7, 8 & 9



Government
of South Australia

Department for Education

WE SHOW

GRIT

WE DISPLAY

RESILIENCE

WE ARE

SELF MOTIVATED



RESPECT

RESPONSIBILITY

TRUST

ACHIEVEMENT

COMMUNITY

THE FACT THAT A SUBJECT DESCRIPTOR APPEARS IN THIS BOOKLET DOES NOT NECESSARILY MEAN THAT THE SUBJECT WILL RUN NEXT YEAR. THE DECISION FOR THE SUBJECT TO RUN WILL ULTIMATELY BE DETERMINED BY THE STAFFING ALLOCATION AND CLASS SIZE AT THE BEGINNING OF THE YEAR.

INDEX

Page Number

Middle School Handbook	4
Year 7, 8 and 9 Subject Offerings	5
<i>The Arts Flowchart</i>	6
Year 7 The Arts (Compulsory)	7
Year 8 The Arts (Compulsory)	7
Year 9 Visual Arts	8
Year 9 Drama	8
Year 9 Music	8
<i>English Flowchart</i>	9
Year 7 English (Compulsory)	10
Year 8 English (Compulsory)	10
Year 9 English (Compulsory)	10
<i>Health and Physical Education Flowchart</i>	11
Year 7 Health and PE (Compulsory)	12
Year 8 Health and PE (Compulsory)	12
Year 9 Health and PE (Compulsory)	13
Year 9 Specialist Physical Education	13
Year 8 Home Economics	13
Year 9 Home Economics	14
<i>Humanities and Social Sciences (HASS) Flowchart</i>	15
Year 7 HASS (Compulsory)	16
Year 8 HASS (Compulsory)	16
Year 9 HASS (Compulsory)	16
<i>Mathematics Flowchart</i>	17
Year 7 Mathematics (Compulsory)	18
Year 8 Mathematics (Compulsory)	18
Year 9 Mathematics (Compulsory)	18
<i>Science Flowchart</i>	19
Year 7 Science (Compulsory)	20
Year 8 Science (Compulsory)	20
Year 9 Science (Compulsory)	21
Year 7 Agriculture 1	21
Year 9 Agriculture 1	21
Year 9 Agriculture 2	22
<i>Technology Flowchart</i>	23
Year 7 Technology (Compulsory)	24
Year 8 Technology (Compulsory)	24
Year 9 Metalwork	25
Year 9 Electronics	25
Year 9 Woodwork	26

MIDDLE SCHOOL HANDBOOK

This Handbook outlines the curriculum pattern for Year 8 and 9.

Subject offerings in each faculty area are listed with descriptions of the anticipated learning areas, assessment information, special requirements of each course, and the possible pathways to future study and learning opportunities.

The Waikerie High School curriculum is based on the Australian Curriculum. All students will be provided with opportunities to fulfill their educational potential, to develop the skills necessary to be active participants in society and to foster the notion of life-long learners in a safe and caring environment.

Waikerie High School provides a setting for highly effective learning. As a result, students can expect to:

- Experience a flexible curriculum based on the needs of each student
- Take part in inquiry based work
- Make choices and take responsibility for their own learning within a supportive environment
- Demonstrate their progress and achievements in a multiple of ways
- Become highly skilled in the use of Information and Communication Technologies (ICT's) in their learning
- Develop self-discipline to respect the rights of others to learn and uphold the school values
- Develop a positive sense of self
- Develop high order communication skills

Students and parents should use this handbook to help plan learning pathways and future directions. This planning will not be done in isolation but with the help of counsellors, subject teachers, homegroup teachers and faculty coordinators. Please make use of this support to help tailor study options to the needs of each individual student.

Phil Valentine
Assistant Principal – Senior School
Waikerie High School

YEAR 7 SUBJECT OFFERINGS

Students in Yr. 7 will cover the following subjects:

Subject	Lessons per week (50 minutes)	Duration
Mathematics	6	Full Year
English	6	Full Year
HASS (Humanities & Social Sciences)	4	Full Year
Science	4	Full Year
HPE (Health and Physical Education)	4	One Semester
The Arts	4	One Semester
Technology	4	One Semester
Agriculture	4	One Semester

All subjects are compulsory. A Year 7 student will have 7 subjects per semester so a typical timetable may be:

Semester 1 – Mathematics, English, HASS, Science, HPE and The Arts
Semester 2 – Mathematics, English, HASS, Science, Technology and Agriculture

YEAR 8 SUBJECT OFFERINGS

Subject	Lessons per week (50 minutes)	Duration
Mathematics	4	Full Year
English	4	Full Year
HASS (Humanities & Social Sciences)	4	Full Year
Science	4	Full Year
HPE (Health and Physical Education)	4	Full Year
The Arts	4	Full Year
Technology	4	Full Year

All subjects are compulsory so a Year 8 student will have 7 subjects per semester.

HPE (Health and Physical Education) includes 1 Term of Home Economics

Technology includes 1 Term each of: Digital Technologies, Metalwork, Woodwork and Electronics.

The Arts includes 1 Semester of Drama and One Semester of Visual Arts

YEAR 9 SUBJECT OFFERINGS

Students will study seven subjects each semester (a total of 14 semester units).

Subject	Lessons per week (50 minutes)	Duration
Mathematics	4	Full Year
English	4	Full Year
HASS (Humanities & Social Sciences)	4	Full Year
Science	4	Full Year
HPE (Health and Physical Education)	4	One Semester
<i>Electives (x5)</i>	4	<i>One Semester</i>

A Year 9 student will have 7 subjects per semester so a typical timetable may be:

Semester 1 – Mathematics, English, HASS, Science, HPE, Elective 1 and Elective 2

Semester 2 – Mathematics, English, HASS, Science, Elective 3, Elective 4 and Elective 5.

CHOICE SUBJECTS

Students will study five subjects from the following choices (we ask you to select six in case one of your choices will not fit the timetable.)

Refer to the subjects listed in this Handbook.

ARTS

Visual Arts
Drama
Music

TECHNOLOGY

Woodwork
Metalwork
Electronics

OTHER SUBJECTS

Home Economics
Specialist Physical Education
Agriculture A
Agriculture B

THE ARTS

Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
		Visual Arts (Semester)	Visual Arts (Semester)	Visual Arts or Design 10 credits	Visual Arts – Arts or Design 20 credits
Music (Semester)	The Arts Visual Arts – Semester Drama – Semester	Music (Semester)			
		Drama (Semester)	Drama (Semester)	Drama 10 credits	Drama NOT OFFERED IN 2022 20 credits

THE ARTS

THE ARTS

YEAR LEVEL: 7

LENGTH OF SUBJECT: 1 Semester

PREFERRED BACKGROUND: No pre-requisites.

MUSIC - CONTENT: This unit exposes students to a broader musical experience. The focus is on musical learning through the development of basic instrumental skills. Students will also gain skills and understanding in the areas of performance, improvisation, composition, basic theory, genres of music and instrument families. Students have the optional opportunity and are encouraged to undertake tuition on a brass, percussion or woodwind instrument with teachers from the DfE Instrumental Music (IM).

ASSESSMENT: Students are assessed regularly on concentration, creativity, audience skills and participation. Students are assessed on group skills, performance skills and written reflection.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

THE ARTS

YEAR LEVEL: 8

LENGTH OF SUBJECT: 1 Semester of each

PREFERRED BACKGROUND: No pre-requisites.

VISUAL ARTS

CONTENT: Students are introduced to the elements of Art, Sculpture and Design through a range of practical and theoretical components. The basic elements of Art are covered – line, shape, form, space, colour, tone, texture, balance, layout and composition. The practical component involves drawing, painting, printmaking, clay and graphic design. The theoretical component involves a range of written information on the areas covered.

ASSESSMENT: Assessment is through ongoing appraisal of class work theory, ideas and developmental work, which should be maintained in a sketchbook. Students need to maintain a notebook and drawing equipment of their own.

DRAMA

CONTENT: Students are introduced to Drama as a topic. The subject includes theatre games, teamwork, building characters and script writing with emphasis on the development of self-confidence and self-esteem. Practical skills are developed in the following areas: voice, physical movement, facial expressions, characterization and stage craft.

ASSESSMENT: Students are assessed regularly on concentration, creativity, audience skills and participation. Students are assessed on group skills, performance skills and written reflection.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

VISUAL ARTS

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: Year 8 Art.

CONTENT: This subject further develops core elements of visual arts: line, shape, form, space, colour, tone, texture, balance, layout and construction. Students will continue developing their skills in the areas of drawing, painting, sculpture, printing, and design. An appropriate art history project and analysis of other artist's work will also be covered.

ASSESSMENT: Ongoing appraisal of class work; the generation of ideas, research, and the refining and development of the artwork will be formally assessed at the end of each project; presentation and reflection of final art projects; a test covering art history and analysis.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

DRAMA

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: Practical skills are developed in the following areas: script writing, film making, elements of drama, improvisation and character development.

ASSESSMENT: Focused on peer and self-assessment students are evaluated regularly on self-directed creative tasks, theatre skills, technical knowledge and participation. Students present their work as performances, films, audio recordings and written reflections.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

MUSIC

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

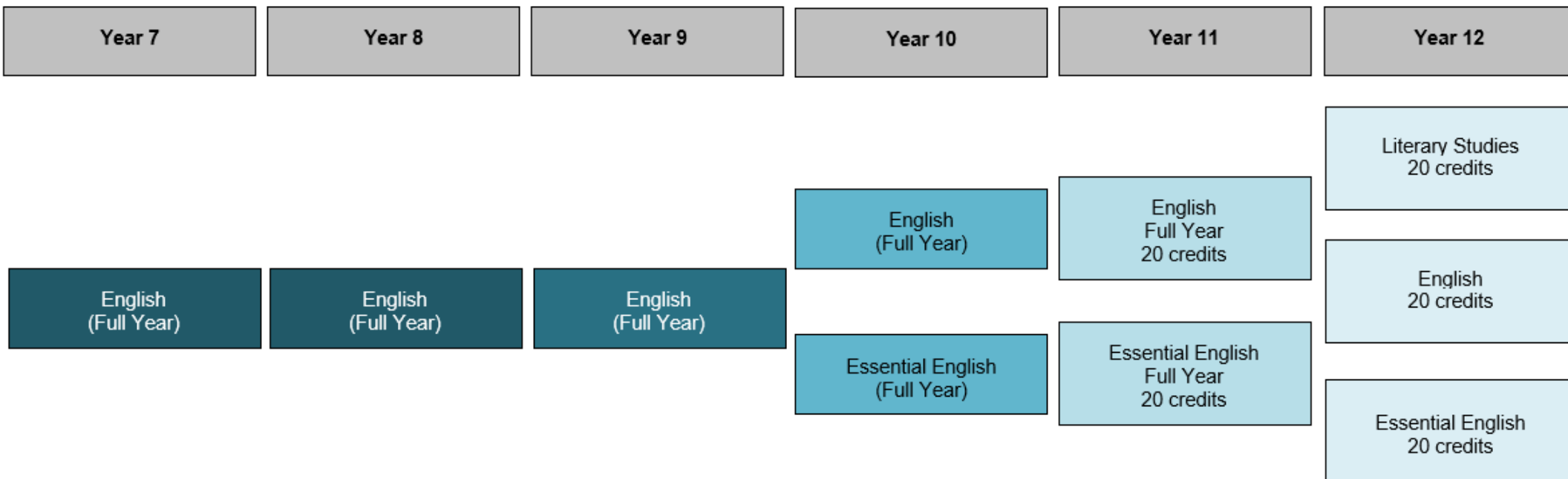
PREFERRED BACKGROUND: No pre-requisites

CONTENT: Students are strongly encouraged to undertake/continue instrumental lessons to complement their classroom music. The practical part of this course develops students' ensemble and solo performance skills through the use of their voice, individual practice time, group work, improvisation and composition. Students will expand on their knowledge of music theory, study the development of The Blues and begin to use music technology, such as the notation software Sibelius, to support their musical learning.

ASSESSMENT: Students will be assessed on their level of participation and co-operation in class, small group and individual activities, their use of individual practice time and their contribution to various ensembles. Two solo performances, theory tests, use of music technology and research project(s) comprise the remainder of the assessment. IM students will also receive a report from their instrumental teacher.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

ENGLISH



**20 Credits of Literacy
(C or better) required
for SACE**

ENGLISH

ENGLISH – (COMPULSORY)

YEAR LEVEL: 7

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: Successful completion of Year 6 English.

CONTENT: This is a flexible program of language experience designed to promote personal growth and the development and extension of all English skills: reading, writing, listening, speaking, participating and viewing.

ASSESSMENT: All aspects of the course are assessed, e.g., written responses (both receptive and productive), oral activities, assignments, etc.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

ENGLISH – (COMPULSORY)

YEAR LEVEL: 8

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: Successful completion of Year 7 English.

CONTENT: This is a flexible program of language experience designed to promote personal growth and the development and extension of all English skills: reading, writing, listening, speaking, participating and viewing.

ASSESSMENT: All aspects of the course are assessed, e.g., written responses (both receptive and productive), oral activities, assignments, etc.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

ENGLISH – (COMPULSORY)

YEAR LEVEL: 9

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: Successful completion of Year 8 English.

CONTENT: This is a flexible program of language experience designed to promote personal growth and the development and extension of all English skills: reading, writing, listening, speaking, participating and viewing.

ASSESSMENT: All aspects of the course are assessed, e.g., written responses (both receptive and productive), oral activities, assignments, etc.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HEALTH AND PHYSICAL EDUCATION

Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
		HPE (Semester)	HPE (Semester)	Physical Education 1 10 credits	Physical Education 20 credits
	HPE HPE – 3 Terms Home Ec. – 1 Term	PE Specialist (Semester)	PE Specialist (Semester)	Physical Education 2 10 credits	
HPE (Semester)		Home Economics (Semester)	Home Economics (Semester)	Food and Hospitality 10 credits	Food and Hospitality 20 credits

HEALTH AND PERSONAL DEVELOPMENT

HEALTH AND PHYSICAL EDUCATION – (COMPULSORY)

YEAR LEVEL: 7

LENGTH OF SUBJECT: One Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: The course is aligned with the Australian Curriculum content and will cover the following areas through a range of practical and classroom activities.

Practical Concepts: Fitness, basic games

Health Concepts: healthy lifestyles (nutrition, healthy habits, benefits of physical activity, drugs and alcohol)

ASSESSMENT: Practical component is graded through skills and communication checklists. Health component is graded by folio tasks and group work observations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HEALTH AND PHYSICAL EDUCATION – (COMPULSORY)

YEAR LEVEL: 8

LENGTH OF SUBJECT: Three terms

PREFERRED BACKGROUND: Completion of Year 7 HPE.

CONTENT: The course is aligned with the Australian Curriculum content and will cover the following areas through a range of practical and classroom activities.

Practical Concepts: Fundamental movement skills, games and sports, lifelong physical activities, and the health benefits of physical activity will be covered through the sports of swimming, athletics, cross country running and invasion games, such as European handball, Soccer and/or Touch.

Health Concepts: Relationships and sexuality, healthy lifestyles and sport education.

ASSESSMENT: Practical component is graded through skills and communication checklists. Health component is graded by folio tasks and group work observations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HEALTH AND PHYSICAL EDUCATION – (COMPULSORY)

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: Year 8 Health and Physical Education.

CONTENT: The course is aligned with the Australian Curriculum content and will cover the following areas through a range of practical and classroom activities.

Practical concepts: Physical activities will be covered include Swimming, Athletics, Cross Country running, Soccer, Netball, Hockey and Australian Rules football.

Health concepts: Relationships and sexuality, mental health and wellbeing, alcohol and other drugs.

ASSESSMENT: Practical component is graded through skills and communication checklists. Health component is graded by folio tasks and group work observations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

PHYSICAL EDUCATION SPECIALIST

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: Year 8 HPE.

CONTENT: Students will develop skills and knowledge in a variety of physical activities. Core units of Touch, Softball, Cricket and Fitness will be studied with electives offered in Volleyball, Softball, Cricket and Tennis. Theory units include Fitness Components, types of games and sport analysis.

ASSESSMENT: Fitness task and Sport Analysis and Games making.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HOME ECONOMICS

YEAR LEVEL: 8

LENGTH OF SUBJECT: One term

PREFERRED BACKGROUND: Nil

CONTENT:

The food component introduces students to a range of food preparation tools, equipment and techniques used to make high quality, safe and nutritious food. Through basic nutritional information and utilising the Australian Guide to Healthy Eating, students will participate in a Smart Snack Practical Activity. The textiles component introduces the properties of different textile materials and basic construction techniques to produce a soft toy.

ASSESSMENT: Practical and theory.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Students may be required to bring some food ingredients for practical assessments. Students may need to supply their own fabric for sewing of their practical projects.

HOME ECONOMICS

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

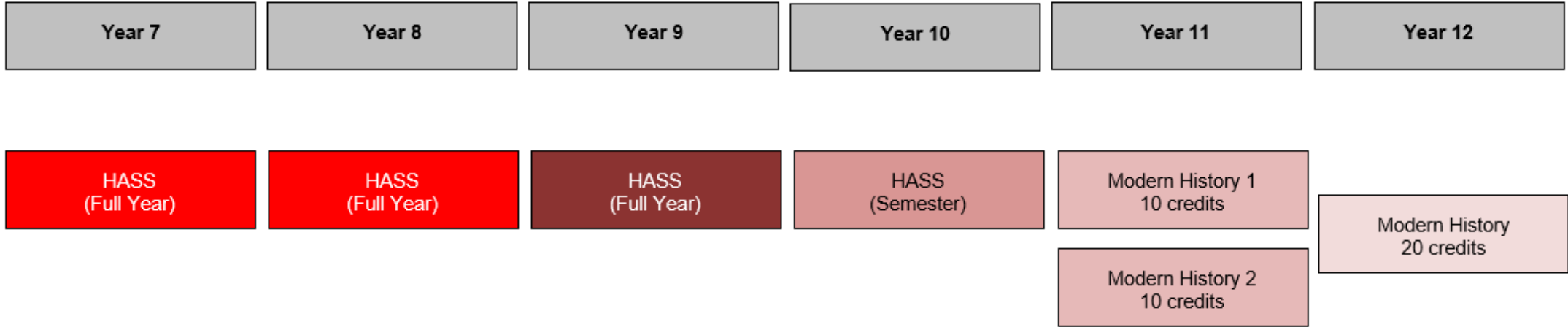
PREFERRED BACKGROUND: Nil.

CONTENT: This course aims to develop the students' range of food preparation skills and nutritional knowledge. Through the use of the design process students use their knowledge and understanding of nutrition to investigate, design, plan, create and evaluate adolescents' health and understanding of ingredients. Students will individually design a healthy meal on a selected theme. In textiles, students will develop knowledge and skills of using a sewing machine to create a small textile project such as a pencil case or laptop cover utilising sewing skills such as applique and inserting a zipper.

ASSESSMENT: Practical and theory.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Students may be required to bring some food ingredients for practical assessments. Students may need to supply their own fabric for sewing of their practical projects.

HUMANITIES AND SOCIAL SCIENCES (HASS)



HUMANITIES AND SOCIAL SCIENCES (HASS)

HASS – (COMPULSORY)

YEAR LEVEL: 7 **LENGTH OF SUBJECT: Full Year**

PREFERRED BACKGROUND: No pre-requisites.

CONTENT - The Year 7 Curriculum provides study of ancient societies of the East and West. Students investigate the nature of water, the liveability of places, and their role in the local and national economy.

ASSESSMENT: This consists of assignments, reports, bookwork, essays, map reading and interpretation, map-making, oral activities, knowledge, inquiry investigations and participation in excursions.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HASS – (COMPULSORY)

YEAR LEVEL: 8 **LENGTH OF SUBJECT: Full Year**

PREFERRED BACKGROUND: No pre-requisites.

CONTENT - HISTORY: The Year 8 Curriculum provides study of history from the end on the ancient period to the beginning of the modern period, c.650AD – 1750.

CONTENT - GEOGRAPHY: Landforms and landscapes focuses on investigating geomorphology through a study of landscapes and their landforms. The values and meanings placed on landforms and landscapes, and management of landscapes. 'Changing nations' investigates the changing human geography of countries, as revealed by shifts in population distribution.

ASSESSMENT: This consists of assignments, reports, bookwork, essays, map reading and interpretation, map-making, oral activities, knowledge, inquiry investigations and participation in excursions.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

HASS – (COMPULSORY)

YEAR LEVEL: 9 **LENGTH OF SUBJECT: Full Year**

PREFERRED BACKGROUND: No pre-requisites.

CONTENT – HISTORY: The Year 9 curriculum provides a study of the history of the making of the modern world from 1750 to 1918.

CONTENT – GEOGRAPHY: There are two units of study in the Year 9 curriculum for Geography: Biomes and food security and Geographies of interconnections.

ASSESSMENT: This consists of assignments, reports, bookwork, essays, map reading and interpretation, map-making, oral activities, knowledge, inquiry investigations and participation in excursions.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

MATHEMATICS

Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
Mathematics (Full Year)	Mathematics (Full Year)	Mathematics (Full Year)	Mathematics (Full Year)	Mathematics A 10 credits	
				Mathematics B 10 credits	Mathematical Methods 20 credits
				Mathematics C 10 credits	Specialist Mathematics 20 credits
			General Mathematics (Full Year)	General Mathematics A 10 credits	
				General Mathematics B 10 credits	General Mathematics 20 credits
			Essential Mathematics (Full Year)	Essential Mathematics A 10 credits	Essential Mathematics 20 credits

**10 Credits of
Numeracy (C or better)
required for SACE**

MATHEMATICS

MATHEMATICS – (COMPULSORY)

YEAR LEVEL: 7

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This course is designed to continue the student's development of Mathematics and Numeracy. It exposes students to more open-ended problems, developing high order problem solving skills and abstract thinking required for senior Mathematics. This will be done through the topics: 'Number and Place value, Real numbers, Money and Financial Math, Patterns and Algebra, Measurements, Statistics and Chance.

ASSESSMENT: Skills and Application Tasks (SATs) and Folio Investigations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Scientific Calculator \$25 (compulsory), Geoliner \$0.90, compass \$1.10, ruler \$1.

MATHEMATICS – (COMPULSORY)

YEAR LEVEL: 8

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This course is designed to continue the student's development of Mathematics and Numeracy. It exposes students to more open-ended problems, developing high order problem solving skills and abstract thinking required for senior Mathematics. This will be done through the topics: 'Functions and Graphs', 'Measurement and Geometry', Number and Algebra' and 'Statistics and Probability'.

ASSESSMENT: Skills and Application Tasks (SATs) and Folio Investigations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Scientific Calculator \$25 (compulsory), Geoliner \$0.90, compass \$1.10, ruler \$1.

MATHEMATICS

YEAR LEVEL: 9

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: Success in Year 8 Mathematics.

CONTENT: This course is designed to continue the students' development of Mathematics and Numeracy. It exposes students to more open-ended problems, developing high order problem solving skills and abstract thinking required for senior Mathematics. This will be done through the topics: 'Functions and Graphs', 'Measurement and Geometry', Number and Algebra' and 'Statistics and Probability'.

ASSESSMENT: Skills and Application Tasks (SATs) and Folio Investigations.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Scientific Calculator \$25 (compulsory), Geoliner \$0.90, compass \$1.10 and ruler \$1.

SCIENCE

Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
Science (Full Year)	Science (Full Year)	Science (Full Year)	Science (Full Year)	Physics A Semester 1 10 credits	Physics 20 credits
				Physics B Semester 2 10 credits	
				Biology 1 Semester 1 10 credits	Biology 20 credits <i>(Biology Scientific Studies – can be studied as a variant of this subject)</i>
				Biology 2 Semester 2 10 credits	
				Chemistry A Semester 1 10 credits	Chemistry 20 credits <i>(Chemistry Scientific Studies – can be studied as a variant of this subject)</i>
				Chemistry B Semester 2 10 credits	
		Agriculture (Semester)	Agricultural Studies 1 (Semester)	Agricultural Studies 1 Viticulture and Wine Production 10 credits	Agriculture Production 20 credits <i>(Ag Community Studies B – can be studied as a variant of this subject)</i>
			Agricultural Studies 2 (Semester)	Agricultural Studies 2 Animals 10 credits	

SCIENCE

SCIENCE – (COMPULSORY)

YEAR LEVEL: 7

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This course is designed to introduce students to all four sciences: Biology, Chemistry, Earth Science and Physics. It exposes students to an inquiry based approach, developing high order problem solving skills and abstract scientific thinking. They will learn how to use fine motor skills, observation, measuring devices while doing experiments and predict the outcomes of these experiments. This will be done through the topics: 'Classification and Ecosystems' (Biological Science), 'Separation techniques (Chemical Science), 'Force and motion (Physical Science) and 'Planets and renewable energy (Earth and Space Science).

ASSESSMENT: Folio that consists of (Practical Investigations, Skills and Applications tasks, Research Assignments and Science as a Human Endeavour task).

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions/camps.

SCIENCE – (COMPULSORY)

YEAR LEVEL: 8

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This course is designed to introduce students to all four sciences: Biology, Chemistry, Earth Science and Physics. It exposes students to an inquiry based approach, developing high order problem solving skills and abstract scientific thinking. They will learn how to use fine motor skills, observation, measuring devices while doing experiments and predict the outcomes of these experiments. This will be done through the topics: 'Cells and Multicellular Organisms' (Biological Science), 'Change Matters' (Chemical Science), 'Energy Changes' (Physical Science) and 'Rock Star' (Earth and Space Science).

ASSESSMENT: Folio that consists of (Practical Investigations, Skills and Applications tasks, Research Assignments and Science as a Human Endeavour task).

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions/camps.

SCIENCE – (COMPULSORY)

YEAR LEVEL: 9

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This course is designed to introduce students to all four sciences: Biology, Chemistry, Earth Science and Physics. It exposes students to an inquiry based approach, developing high order problem solving skills and abstract scientific thinking. They will learn how to use fine motor skills, observation, measuring devices while doing experiments and predict the outcomes of these experiments. This will be done through the topics: 'Systems' (Biological Science), 'Chemical Reactions' (Chemical Science), 'Energy Transfer' (Physical Science) and 'Plate Tectonics and Earth History' (Earth and Space Science).

ASSESSMENT: Folio that consists of (Practical Investigations, Skills and Applications tasks, Research Assignments and Science as a Human Endeavour task).

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions/camps.

AGRICULTURE 1

YEAR LEVEL: 7

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This unit is centered on introducing students to Agriculture through the following areas: Growing Great Grains, Apiary (Bee Keeping) and Vermiculture (worms).

ASSESSMENT: Agricultural Reports (Deconstruction Practical and SHE tasks), Applications (Research and Practical Investigation) and Farm Work Skills (Farm & Animal Handling skills).

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions.

AGRICULTURE 1

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This unit is centered on the following areas: Commercial Horticulture, Cropping and Poultry.

ASSESSMENT: Agricultural Reports (Deconstruction Practical and SHE tasks), Applications (Research and Practical Investigation) and Farm Work Skills (Farm & Animal Handling skills).

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions.

AGRICULTURE 2

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: This unit is centered on studies in the following areas: Poultry, Yabbies and some Horticulture.

ASSESSMENT: Agricultural Reports (Deconstruction Practical and SHE tasks), Applications (Research and Practical Investigation) and Farm Work Skills (Farm & Animal Handling skills).

SPECIAL REQUIREMENTS/COSTS OF COURSE: Possible excursions.

TECHNOLOGY

Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
		Woodwork (Semester)	Woodwork (Semester)	Woodwork Traditional 10 credits	Woodwork (Material Solutions) 20 credits
Technology (Semester)	Technology (Full Year)			Woodwork Creative 10 credits	
		Metalwork (Semester)	Metalwork (Semester)	Metalwork (Material Solutions) 10 credits	Metalwork NOT OFFERED IN 2022 20 credits
		Electronics (Semester)	Electronics (Semester)	Electronics (Robotic and Electronic Systems)	Electronics NOT OFFERED IN 2022 20 credits

TECHNOLOGY

TECHNOLOGY – (COMPULSORY)

YEAR LEVEL: 7

LENGTH OF SUBJECT: Full Year (2 lesson per week)

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: Emphasis is placed on gaining skills and confidence in design and digital technologies. Students find practical solutions to design problems. The following four areas will be studied:

Digital Technologies: Computer Aided Design (C.A.D.) using Autodesk Inventor, 3D Printing, Gaming using Scratch, Robotics using Lego EV3 Icon Coding.

Design Technologies: Metalwork: Using a variety of materials in woodwork and metalwork to design and produce a product.

ASSESSMENT: Students are assessed in accordance to the Australian Curriculum Standards for this curriculum area.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

TECHNOLOGY – (COMPULSORY)

YEAR LEVEL: 8

LENGTH OF SUBJECT: Full Year

PREFERRED BACKGROUND: No pre-requisites.

CONTENT: Emphasis is placed on gaining skills and confidence in design and digital technology areas. Students achieve practical solutions to various design problems. The following areas will be studied:

Digital Technologies: Computer Aided Design (C.A.D.) using Autodesk Inventor, 3D Printing, Programing/Coding to a produce basic web page using HTML language (Line Coding or CNC Programing using Vcarve Pro and the CNC router.

Metalwork: Using a variety of metals to: mark, cut, fold, bend, solder, and spot weld to produce a product.

Woodwork: Using timber to: mark, cut, plane, glue, bandsaw, drill and disc sand to produce a product.

Electronics: Using basic electronic components and equipment to make a basic circuit using circuit wizard

Other: Students will be introduced to CAD (Computer Aided Design) and 3D printing in specific technology subjects. Students will also use the design process to design and create various projects.

ASSESSMENT: Students are assessed in accordance to the Australian Curriculum Standards for this curriculum area.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

METALWORK

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

N.B.: This course is compulsory if the student intends to study any future metalwork.

CONTENT: Students complete practical activities designed to develop basic skills in oxy-acetylene welding, fitting and machining, metal fabrication. Emphasis is also given to safe working habits and developing problem solving and design skills. Theory assignments are used to reinforce practical tasks and develop communication and graphics skills. A CAD and 3D printing component will be added into the course, to strengthen design ideas and processes.

ASSESSMENT: Students are assessed in accordance to the Australian Curriculum Standards for this curriculum area.

SPECIAL REQUIREMENTS/COSTS OF COURSE: If a student uses more than their allocated amount of materials then they will incur a charge for any extra materials that they use. This course enables the students to study Metalwork at Years 10, 11 and 12.

ELECTRONICS

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

NB: This course is highly recommended if the student intends to study future electronics.

CONTENT: Students will develop and build projects which will develop skills in the use of electronic test equipment, circuit interpretation, circuit board production and population, soldering, component identification, faultfinding and use circuit wizard to create electronic circuit diagrams. Picaxe programming is used to set circuit outputs. Written assignments will be used to further their understanding in the practical tasks.

ASSESSMENT: Students are assessed in accordance to the Australian Curriculum Standards for this curriculum area.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

WOODWORK

YEAR LEVEL: 9

LENGTH OF SUBJECT: Semester

PREFERRED BACKGROUND: No pre-requisites.

NB: *This course is highly recommended if the student intends to study future woodwork.*

CONTENT: Students will use the design process to engineer and produce various practical projects made from wood. Students will be introduced to the CNC router to produce a LED light. Students will be introduced into STEM (Science, Technology, Engineering and Math) through the CO² Dragster Challenge. Students will use mathematic and physic principals in their design process as well as producing CAD drawings to demonstrate their design ideas in a folio format. Students will produce their CO² Dragster and compete against their class members.

Emphasis is placed on developing safe work habits when using a wide range of tools and machinery.

ASSESSMENT: Students are assessed in accordance to the Australian Curriculum Standards for this curriculum area.

SPECIAL REQUIREMENTS/COSTS OF COURSE: Nil.

