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WELLINGTON
SECONDARY COLLEGE

**Junior School
Handbook
2018**

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Dear Parents/Guardians and Students

This handbook outlines the program for Years 7 and 8 for 2018 and gives a course description for each of the subjects taught at these levels. The curriculum has been designed to follow on from studies in the primary years by providing a sound foundation in the Victorian Curriculum.

At these levels all students complete a compulsory set of studies. The only exception is in the area of Languages. In addition to French and Mandarin, we offer Empowering Literacy (ELit) and English as an Additional Language (EAL) to selected students as an alternative.

An effort has been made to minimise the number of different teachers with whom the students come into contact. Most subjects run for the whole year and only a relatively small number are offered as semester studies.

Extra costs incurred for purchase of materials will be subsidised by College Equity funds.

Every student is required to have their own computer device as ICT is an integral part of all curriculum areas.

Yours sincerely

Mrs Fern Brisbane
Assistant Principal

Mrs Carmel Roberts
Head of Junior School

SPECIALIST PROGRAMS

Wellington Secondary College offers a range of programs to extend our gifted and talented students as well as meet the needs of those with additional learning requirements:

- **Select Entry High Flyers** class at Years 7 to 9 in Mathematics, English, Humanities and Science.
 - This program offers the opportunity for students to be part of a learning group that focuses on the development of 21st Century Skills:
 - Creativity
 - Critical Thinking
 - Communication
 - Collaboration
 - Students will have access to teacher mentors to support their particular areas of interest which can be developed over the three years of the program. Students will be expected to participate in a range of subject competitions and learn a musical instrument in Year 7
- **Accelerated learning in Mathematics**
 - Selected students have the opportunity to be accelerated in Mathematics, culminating in the study of Mathematical Methods, Units 1 and 2 in Year 10 and Units 3 and 4 in Year 11
- **VCE Advance Placements in Year 10**
 - Approved students have the opportunity to study a VCE/VET subject in Year 10 in order to maximise their ATAR (Australian Tertiary Admissions Rank)
- **Empowering Literacy**
 - This is an elective designed to enhance literacy skills across all subject areas and can provide a pathway to VCAL at the senior level
- **Numeracy and Applications**
 - This is a personalised mathematical course which focuses on basic concepts and practical skills. Class sizes are reduced to enable more 1:1 support for students.

COMPUTER DEVICES

Wellington Secondary College is committed to providing students with rich and engaging learning experiences that harness the power of learning technologies. Advances in technology have provided new opportunities to connect and show understanding, to think creatively and to problem solve and to work collaboratively. We believe that students accessing technology through a 1:1 program positively engages them in these learning opportunities and support improved learning outcomes.

All students are required to have their own computer device in 2018. The College recommends the following device:

ACER TRAVELMATE B118 PENTIUM CPU – Confirmed Cost for 2018 is \$860.40* including GST. This package includes:

- Windows 10 with On-going Wellington Service and access to DET approved free software
- 3 Year Onsite Warranty at the school
- 3 Years Accidental Damage Insurance with a \$0 excess, 3 claims over 3 years
- Intel Pentium quad-core N4200 (2M Cache, up to 2.5 GHz)
- 11.6" Touch display 1920 x 1080 screen, 360 degree hinge, built in keyboard and active stylus for note taking
- 4GB DDR3 Memory
- Up to 13 hours battery life
- 128 GB SSD
- Storage / Carry Case valued at \$24.00. There is an additional carry case available at a cost of \$30.80

This price includes insurance valued at \$139.70 – you can choose to opt out of insurance on the portal but it is **not recommended**. A cracked screen on a touch notebook can cost around \$400 or more without insurance.

***The price does NOT include delivery. The delivery fee is \$15.00 and is automatically included in the portal order.**

Orders are to be placed online via the portal <http://wellingtonsc.orderportal.com.au>

Contact person: Mr Eugene Stefyn

CO-CURRICULAR PROGRAMS:

In addition to the timetabled program several additional co-curricular programs are available:

Instrumental Music

All Year 7 students are introduced to a musical instrument as part of the music course. If they wish to study an instrument further and become involved in the College Band, students are withdrawn from classes on a rotational basis for lessons in the chosen instrument. A fee is charged for private lessons at the College.

Peer Support Program

Year 7 students work in small groups with selected and trained Year 10 students during Semester 1 to assist their transition into Wellington Secondary College.

Activities Program

Early in Term 1, all Year 7 students, together with their peer support leaders, are involved in an activities program called 'Wellington Welcomes You' to assist their transition.

Year 8 students are involved in a five-day camp or five-day alternative activities program.

Student Wellbeing Program

A Student Wellbeing and Pastoral Care Program operates in the Junior School Health and PE curriculum, and is delivered during timetabled classes. The aim of the program is to develop a sense of belonging, resilience and secure individuals through covering areas such as:

1. Bullying and Harassment
2. Anger Management and Conflict Resolution
3. Loss and Grief
4. Knowing the Blues
5. Puberty
6. Drugs: Smoking and Alcohol
7. Developing Belongingness and Connectedness to school; Teamwork and Building Self Esteem

Drama Production

Each year the College stages an annual production that involves many students from all year levels.

Interschool Sports

The College is active in interschool sport and offers the chance for students to represent the College in sports including swimming, athletics, cross-country, netball, softball, tennis, table tennis, baseball, volleyball, hockey, cricket, football and soccer.

Houses Program

The College conducts a range of activities in an active Houses Program. Each student is allocated to a House: **Alexander (Blue)**, **Borrowdale (Gold)**, **Penrhyn (Green)**, or **Sirius (Red)** each of which was named after a ship in the First Fleet of 1788. Students can represent their House at the Swimming, Athletics and Cross-country Carnivals, as well as in competitions such as chess, mini-Olympics, basketball and four square.

JUNIOR SCHOOL TIMETABLED PROGRAM

A fortnightly timetable operates so that a balance of curriculum can be offered throughout the College. Each day is divided into 6 x 50-minute teaching periods. The morning periods are grouped in doubles and in the afternoon singles where possible. Semester units are indicated by (S).

Curriculum Area	Year 7 Subject	Minutes per Fortnight	Year 8 Subjects	Minutes per Fortnight
Arts	Art (S)	200	Visual Arts	200
	Drama	200		
	Music (S)	200	Music (S)	200
English	English	500	English	500
	EAL* / Empowering Literacy #	300	EAL* / Empowering Literacy #	250
Health and Personal Development **	Physical Education, Sport Education & Health Education	450	Physical Education, Sport Education & Health Education	450
History, Geography, Economics and Civics and Citizenship	History, Geography, Economics and Civics and Citizenship	450	History, Geography, Economics and Civics and Citizenship	400
Languages	French / Chinese	300	French / Chinese	250
Mathematics	Mathematics	450	Mathematics	450
Science	Science	300	Science	300
Technologies	Information Technology	150	Information Technology (S)	200
			Design Technology (S)	250
			Food Junior Master Chef (S)	250

* Note: EAL (English as an Additional Language) runs parallel to language classes for eligible students

Note: Empowering Literacy runs parallel to Language classes for selected students

**Note: Health and Personal Development at Years 7 and 8 combines the subjects of Physical Education, Sport Education and Health

The course descriptions for each of the studies offered have been listed in alphabetical order on the following pages for your convenience and information.

For any further information regarding the contents of this handbook, please contact the Head of Junior School.

THE ARTS – ART

YEAR 7

Duration: One Semester – 200 minutes per fortnight.

This unit is designed to give students the opportunity to express ideas visually using a range of media. Students will develop confidence using art materials through practical experiments. A variety of techniques will be used in the production of drawing, painting and printing. It will also provide students with the opportunity to appreciate artworks made with particular cultural and historical contexts.

Goals:

- To encourage students to express their ideas visually using a variety of media
- To develop skills and techniques using a range of materials
- To encourage students to develop confidence in working with art materials
- To foster an appreciation of artworks made with particular cultural and historical contexts

Assessment Tasks:

- Art Production: 2D
- Art Production: 3D
- Art Production: Print
- Workbook
- Art Appreciation

Cost of Materials: \$15.00

Contact Person: Mr Andrew Bare

THE ARTS – VISUAL ARTS

YEAR 8

Duration: All year – 200 minutes per fortnight.

Students will be required to contribute a material levy fee of \$25.00 which will provide materials to satisfy all outcomes in Art, Ceramics and Visual Communication and Design.

This course is designed to extend students' opportunities to express ideas visually using a range of media and techniques, both 2D and 3D. Students will complete a folio of paintings, drawings, mixed media and three dimensional works. Students will acquire a vocabulary of appropriate art/design terminology and appreciate works of various art/design styles and artists/designers. The unit will also enable students to develop an awareness and appreciation of historical and cultural artworks.

Goals:

- To encourage students to express their ideas visually using a variety of media
- To develop skills and techniques using a range of materials both 2D and 3D
- To encourage students to develop confidence in working with art materials
- To foster an appreciation of artworks made with particular cultural and historical context

Assessment Tasks:

- Art production: 2D
- Art production: 3D
- Visual Communication and Design Production
- Visual Journal
- Art appreciation

Cost of Materials: \$25.00 (covered by Equity funds)

Contact Person: Mr Andrew Bare

THE ARTS – MUSIC

YEAR 7

Duration: One Semester – 200 minutes per fortnight

This course is designed to give students opportunities to perform, create and respond to music in meaningful ways. Students will complete notation exercises for performances, listen to a range of music styles for personal, historical and cultural understanding and demonstrate an understanding of the function of music in society.

Goals:

- To develop performance skills and techniques on keyboard, classroom instruments and iPads
- To encourage students to express their ideas aurally in composition tasks using technology
- To encourage students to make informed decisions about the music around them
- To appreciate that music is a vital part of human experiences and values

Assessment Tasks:

- Performances on classroom instruments including keyboards and iPads
- Composition of a Soundscape
- Aural / Theory Exercises
- Reflective Journal using loose-leaf paper in a binder folder

Cost of Materials: \$10.00 (covered by Equity funds)

Contact Person: Mr Ross Brisbane

YEAR 8

Duration: One Semester – 200 minutes per fortnight.

This course is designed to extend students' opportunities to perform, create and respond to music in meaningful ways. Students will complete notation exercises for performances, listen to a range of popular music styles from the twentieth and twenty-first centuries for personal, historical and cultural understanding and demonstrate an understanding of the function of music in society. Students will also explore methods of production and editing of musical recordings using computers, instruments and iPads.

Goals:

- To develop performance skills and techniques on keyboard, guitar and classroom instruments
- To encourage students to express their ideas aurally in composition arranging tasks using instruments and/or computers and iPads
- To encourage students to make informed decisions about the music around them
- To appreciate that music is a vital part of human experiences and values

Assessment Tasks:

- Performances on keyboard and guitar
- Composition of various melodies on instruments, computer or iPad
- Aural / theory exercises
- Reflective Journal using loose-leaf paper in a binder folder

Cost of Materials: \$10.00 (covered by Equity funds)

Contact Person: Mr Ross Brisbane

THE ARTS – DRAMA

YEAR 7

Duration: All Year – 200 minutes per fortnight.

Year 7 Drama introduces and develops the skills associated with drama: improvisation, movement, mime, role-play and vocal skills. Students also explore dramatic elements such as the use of space, tension and timing. Emphasis is placed on the development of students' self-confidence, self-discipline and sensitivity towards others. Particular study will be made of the use of drama in different cultures, the basics of script writing and the mechanics of presentation to an audience.

Goals:

- To develop students' social skills and their ability to build constructive relationships with others
- To develop students' communication skills in a range of contexts both within and outside the school
- To develop students' understanding of the elements of drama and the way they may be employed to communicate meaning
- To enable students to use the expressive power of drama to shape their own message, stories and meaning
- To establish a cohesive and co-operative learning environment that enables students to show self-confidence, self-discipline and tolerance of others
- To encourage students to value each other's drama experience showing respect for others and using appropriate audience behaviour
- To encourage students to use appropriate language to describe the ways drama is organised to express ideas and feelings

Assessment Tasks:

- Role-play performance
- Workbook and journal
- End of year major performance task

Contact Person: Mr Ross Brisbane

ENGLISH

YEARS 7 and 8

Duration: All year – 500 minutes per fortnight

Goals:

To develop:

- and enhance students' reading for pleasure and curiosity
- the ability to read and to comprehend the English language and consider alternative interpretations
- the ability to speak and to write fluently and coherently
- the appreciation of literature
- appreciation of how Thinking and Social Competencies support learning
- an awareness of self and relationships with others in society – involving reflection upon ideas and issues
- an awareness and appreciation of communication systems – such as print, film and television media and ICT
- the ability to solve problems, learn independently and in groups, set goals, self-evaluate, show initiative and think creatively

Subject Content – Year 7:

- Reading: one novel, one short story anthology and a film for study, selected prose, and wider reading
- Writing: reflective (especially based on own experience), persuasive and narrative, and assignments. Emphasis is placed on process, precision, variety and vividness within a clear structure (e.g. paragraphing and essay planning)
- Journal
- Speaking: basic skills through class/group work, reading aloud, specific presentation and debates
- Listening: through teaching specific skills for effective listening in different contexts
- Media: consideration of mass media and its place in society
- Skills: emphasis is placed on dictionary skills, spelling, punctuation, syntax and grammar

Subject Content – Year 8:

- Reading: one set novel, a structured reading program and one film for study, selected prose and poetry, wider reading, comprehension
- Writing: informative, argumentative and analytical modes. Emphasis on drafting and editing of ideas (e.g. essay planning)
- Speaking: reinforce skills involved in small group discussion and public speaking
- Listening: through teaching specific skills for effective listening in different contexts
- Media: appreciation of the significance and role of mass media in society
- Skills: continue developing dictionary skills, spelling, punctuation, grammar and syntax, especially phrase, sentence and paragraph linkage. Parts of speech and tense agreement

Teaching Approaches:

Class lessons, group and individual tasks will focus on the processes of literary appreciation and writing competence. There will be occasions for participation as audience members at theatrical productions, films and public speaking activities. The learning will be supported by the use of ICT.

Assessment Methods:

There will be a number of Common Assessment Tasks which reflect the expected achievement standards of the Victorian Curriculum.

Contact Persons: Mr James Angelopoulos

ENGLISH AS AN ADDITIONAL LANGUAGE

YEARS 7 and 8

- Duration:** All year
- 300 minutes per fortnight in Year 7
 - 250 minutes per fortnight in Year 8

Eligible Year 7 students are placed in this class at the start of the year, normally on the recommendation of their primary school teacher. They must come from a non-English speaking background.

Goals:

- To comprehend written and spoken instructions
- To identify and use parts of speech, tenses and common language structures in order to improve language skills
- To extend the vocabulary of each student
- To develop listening and conversational skills
- To assist with mainstream classwork
- To improve social skills and develop self-esteem, confidence and a pride in their cultural heritage
- To develop understanding of Australian culture
- To develop 'learning how-to-learn' skills

Subject Content:

- Short stories, novels, articles
- Language exercises – studying grammar, vocabulary in context
- Word games
- DVDs, Clickview and computer programs
- Communication activities – role plays, discussion, problem solving
- Writing in both controlled and imaginative settings

Teaching Approaches:

- Wide-ranging speaking, listening, reading and writing activities
- Conferencing with other students and the teacher

Assessment Methods:

- Diagnostic tests
- Non-graded descriptive assessment

Contact Person: Ms Josephine Wright

HEALTH/PHYSICAL EDUCATION /SPORT EDUCATION

YEARS 7 and 8

Duration: All year – 450 minutes per fortnight

Goals:

- Development of human movement
- To develop and improve fundamental motor skills in a range of sports
- To develop and improve fitness levels
- To develop health and well-being of individuals
- To develop a knowledge of health and fitness
- To increase participation and mastery in a wide range of varied activities
- To develop an appreciation of codes of behaviour, social interaction and co-operation in group situations
- To develop values of sportsmanship and 'fair play'
- To encourage the development of a 'personal best'

Subject Content:

Students experience some extended development in sports and other areas including:

Year 7

- Swimming
- Table Tennis
- Karate
- Basketball
- Soccer
- Bullying/Cyber safety
- Risks associated with smoking

Year 8

- Trampolining
- Badminton
- Volleyball
- Hockey
- Tennis
- Relationships and Risk Taking
- Growing and Changing

As part of the program, students also participate in:

- Ball activities – large and small
- Team activities
- Individual activities
- Fitness activities
- Movement awareness and evaluation of performance
- ACHPER fitness testing three times per year
- Physical activity and community events
- Activities related to adolescent life, food choices and risk taking behaviours

Teaching Approaches:

- Practical experiences
- Classroom theory
- Coaching clinics
- Individual and team teaching

Assessment Methods:

- Attendance and preparation
- Participation
- Practical testing – skills, fitness levels
- Written testing – assignments and digital workbook

Cost of Program:

Year 7 \$20.00 (covered by Equity funds)
Year 8 \$20.00 (covered by Equity funds)

Contact Persons: Ms Kerry Riddiford

LANGUAGES

French YEARS 7 and 8

- Duration:** All year
- 300 minutes per fortnight in Year 7
 - 250 minutes per fortnight in Year 8

Goals:

- To introduce students to a new country and its language and to develop intercultural understanding by exploring similarities and differences between the two cultures and languages
- To give students a basic knowledge of written and spoken French
- To encourage students to use basic French vocabulary and structures both orally and in writing
- To develop the ability to use standard French pronunciation and intonation in conversation
- To develop the ability to use basic French vocabulary and sentence structures accurately in the written form

Subject Content – Year 7:

- The course is based on Units 1 – 4 of the Tapis Volant 1 Text which uses the French language in familiar situations, mentions the French links with Australia and compares French and Australian cultural backgrounds
- Students will study some aspects of French life through books, class discussion, videos and the Internet
- Students are introduced to basic expressions and structures that enable them to speak about themselves, friends and school
- Students also research French monuments, Paris, New Caledonia, Martinique and The French West Indies

Subject Content – Year 8:

- Tapis Volant, Unit 5 – 7 forms the basis of the course
- The Year 8 course revises and consolidates the language taught in Year 7 and introduces new vocabulary and sentence structures that enable students to talk about their family, pets, time, school life, likes and dislikes
- French listening, speaking, reading and writing skills of the students continue to be developed
- Students will study more aspects of French life through books, class discussion, videos and the Internet

Teaching Approaches:

- The Tapis Volant 1 Text is based upon continuing cartoon stories of a group of French school students
- Students are encouraged to role play the cartoon story and eventually to talk freely in French about themselves, their friends, home and family, pets, school life, likes and dislikes, clothing and fashion
- Listening, speaking, reading and written activities are used to teach and consolidate all new expressions and grammar points
- Drills, games, songs, plays and poetry are used to reinforce new vocabulary and structures. Computer games and activities are also used to practise the language
- Students research aspects of French life on the Internet and through books

Assessment Methods:

Research assignments and presentations, tests, oral performances, completion of listening, reading and written work in the workbook

Contact Person: Mr Bushan Sookhareea

LANGUAGES cont.

Chinese YEARS 7 and 8

- Duration:** All year
- 300 minutes per fortnight in Year 7
 - 250 minutes per fortnight in Year 8

Goals:

- To give all students a basic knowledge of written (simplified characters) and spoken Chinese
- To encourage all students to use basic Chinese vocabulary and sentence structures both orally and in writing
- To develop the ability to use standard Chinese pronunciation and intonation in conversation
- To provide students with an opportunity to learn and appreciate Chinese artistic, literary and cultural traditions
- To consider each student's own culture and compare it with countries and communities where Chinese is spoken

Subject Content – Year 7:

Students will be given the opportunity to work at their own pace to develop their skills in Chinese. Students will explore reading, writing, speaking and listening skills in relation to the topics below.

Topics Include:

- Learning to count
- Greetings and apologies
- Weeks and months
- The family
- Self introductions
- Countries and Nationalities
- Jobs

Subject Content – Year 8:

Students will continue to build their reading, writing, speaking and listening skills, applying these to the topics below:

Topics Include:

- Countries
- Continents
- Languages
- Getting Ready for School
- Traffic and Transport
- Occupations

Teaching Approaches:

- Participation in a variety of communicative activities such as role play, interview, pair work and games to allow students to practise using the language in meaningful contexts
- Listening, speaking, reading and writing activities are used to teach and consolidate all new expressions and grammar points
- Students will use the Chinese Made Easy course book

Assessment Methods:

Assignments, tests, oral performances, completion of listening, reading and written work in the workbook.

Contact Person: Ms Haijin Zhuang

HISTORY, GEOGRAPHY, ECONOMICS, CIVICS AND CITIZENSHIP

YEARS 7 and 8

- Duration:** All year
- 450 minutes per fortnight in Year 7
 - 400 minutes per fortnight in Year 8

Goals:

- To develop understanding of the world in which they live and to gain a perspective of time and space
- To develop knowledge and skills in the disciplines of history, geography, economics and civics
- To develop skills necessary to investigate, analyse, interpret and communicate information in a variety of written and verbal formats
- To make and justify value judgements about local, national and global issues
- To develop information presentation skills

In developing the above, the course will, in an integrated manner, cover the following topics:

Year 7:

- Historical thinking and research skills.
- A study of ancient societies, including China, Egypt and Australia.
- A study of water as a renewable environmental resource and the different forms it takes.
- Personal finance and Australia's economy

Year 8:

- A study of medieval societies: daily life, social and political structures and the influence of medieval societies on the modern world
- Urbanisation and internal migration in Australia and Asia
- Characteristics of different environments, landscapes and landforms.
- Consumer rights and responsibilities

Teaching Approaches:

Projects and research assignments, discussion, individual and collaborative tasks, map exercises, film, posters, oral presentations, guest speakers, excursions, incursions and fieldwork, e-learning activities, use of information technology.

Assessment Methods:

Common Assessment Tasks, tests, research, projects, and oral presentations using multimedia

Contact Person: Ms Rebecca Amore

MATHEMATICS

YEARS 7 and 8

Duration: All year – 450 minutes per fortnight

The following areas of study are the focus for the curriculum: Number and Algebra, Measurement and Geometry, and Statistics and Probability.

The proficiency strands Understanding, Fluency, Problem Solving and Reasoning are an integral part of the mathematics content across each of the above focus areas.

Some students in Years 7 and 8 are selected to be part of the High Flyers - Accelerated Mathematics Program. Three groups at each junior level will be accelerated to allow these students the opportunity to study VCE Mathematics in Year 10. The accelerated classes complete the year 7, 8 and 9 courses over the two year period.

Some students in year 7 and 8 will be undertaking Numeracy Applications, a modified course in mathematics. This course places more emphasis on basic Numeracy concepts and practical skills. Smaller class sizes allow for more individual help.

Goals:

- Enjoy mathematics and to develop curiosity as well as an appreciation of its elegance and power
- Develop the knowledge, skills and attitudes necessary to pursue further studies in mathematics
- Apply and transfer skills to a wide range of situations including real life, other areas of knowledge and future developments
- Provide the opportunity for attainment of mastery of associated skills
- Develop logical, critical and creative thinking, and patience and persistence in problem solving

Subject Content – Year 7:

Semester 1

Angles
Integers
Statistics
Fractions

Semester 2

Algebra
Decimals
Probability
Measurement
Transformations

Subject Content – Year 8:

Semester 1

Integers and Indices
Algebra
Geometry
Statistics

Semester 2

Linear Equations
Linear Graphs
Probability
Measurement
Ratio and Scale

Teaching Approaches:

- Teacher directed instruction
- Co-operative group work
- Projects and research
- Problem Solving Tasks
- Use of computers and calculators
- Use of 'Mangahigh'

Assessment Methods:

- Topic tests
- Worksheets, homework
- Problem solving and Analysis
- Common Assessment Tasks

Contact Person: Mr Lachlan Champion

SCIENCE

YEARS 7 and 8

Duration: All year – 300 minutes per fortnight

Science provides an empirical way of answering interesting and important questions about the biological, physical and technological world. It is a dynamic, collaborative and creative human endeavour arising from our desire to make sense of our world through exploring the unknown, investigating universal mysteries, making predictions and solving problems.

Students will develop an understanding of important science concepts and processes, the practices used to develop scientific knowledge, science's contribution to our culture and society and its applications in our lives. In addition to this, students will develop critical and creative thinking skills and challenge themselves to identify questions and draw evidence-based conclusions using scientific methods.

Aims:

Throughout their Junior School years students will 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
- 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 analysing data; evaluating results; and drawing critical, evidence-based conclusions
- an ability to communicate scientific understanding and findings to a range of audiences and to justify ideas on the basis of evidence
- an ability to solve problems and make informed, evidence-based decisions about current and future applications of Science while taking into account the ethical and social implications of decisions

Subject Content:

Year 7

- Being A Scientist
 - An introduction to the Science Lab
 - The Scientific Method
- Biological Science
 - Plant and Animal Classification
- Chemical Sciences
 - States of Matter and Mixtures
- Earth and Space Sciences
 - Phenomena of Earth
- Physical Science
 - Forces

Year 8

- Biological Science
 - Cells and Body Systems
- Chemical Sciences
 - Chemical Reactions
- Earth and Space Sciences
 - Rocks and Minerals
- Physical Science
 - Energy: Light and Sound

Assessment Tasks:

- Completion of set class work and homework tasks
- Reports on experimental work
- Common Assessment Tasks

Contact Person: Ms Shanelle Andrew

TECHNOLOGIES: INFORMATION TECHNOLOGY

YEARS 7 and 8

Description: All year - 150 minutes per fortnight in Year 7
One Semester - 200 minutes per fortnight in Year 8

Learning in Digital Technologies focuses on further developing understanding and skills in computational thinking such as decomposing problems and prototyping; and engaging students with a wider range of information systems as they broaden their experiences and involvement in national, regional and global activities.

By the end of Year 8, students will have had opportunities to create a range of digital solutions, such as interactive web applications or programmable multimedia assets or simulations of relationships between objects in the real world.

In Year 7 and 8, students analyse the properties of networked systems and their suitability and use for the transmission of data types. They acquire, analyse, validate and evaluate various types of data, and appreciate the complexities of storing and transmitting that data in digital systems. Students use structured data to model objects and events that shape the communities they actively engage with. They further 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.

They further develop abstractions by identifying common elements while decomposing apparently different problems and systems to define requirements, and recognise that abstractions hide irrelevant details for particular purposes. When defining problems, students identify the key elements of the problems and the factors and constraints at play. They design increasingly complex algorithms that allow data to be manipulated automatically, and explore different ways of showing the relationship between data elements to help computation, such as using pivot tables, graphs and clearly defined mark-up or rules. They progress from designing the user interface to considering user experience factors such as user expertise, accessibility and usability requirements.

They broaden their programming experiences to include general-purpose programming languages, and incorporate subprograms into their solutions. They predict and evaluate their developed and existing solutions, considering time, tasks, data and the safe and sustainable use of information systems, and anticipate any risks associated with the use or adoption of such systems.

Students plan and manage individual and team projects with some autonomy. They consider ways of managing the exchange of ideas, tasks and files, and techniques for monitoring progress and feedback. When communicating and collaborating online, students develop an understanding of different social contexts, for example acknowledging cultural practices and meeting legal obligations.

Contact person: Mr Phil Brown

TECHNOLOGY: DESIGN TECHNOLOGY

YEAR 8

Duration: One Semester – 250 minutes per fortnight in Year 8

Goals:

- To develop students' skills in identifying the need of a client
- To allow students to become familiar with the use of tools and equipment to carry out processes of designing, making and evaluating the product and process

Subject Content:

- Create a brief, design, produce and evaluate products
- Knowledge and understanding of the applications of materials and processes, construction, energy, simple machines and electronics

- Understanding of basic safety, risk assessment and accident prevention
- The correct use of machinery and equipment
- Exploring modern materials and manufacturing techniques
- Influence of technology on development of lifestyle and culture

Assessment Tasks and Work Requirements

- Investigation
- Design Folio
- Production work
- Journal and evaluation reports

Costs of Project Materials: \$30.00 (covered by Equity funds)

Contact person: Mr Leigh Newsome

FOOD TECHNOLOGY

YEAR 8

Duration: One Semester - 250 minutes per fortnight in Year 8

Goals

- To develop teamwork among students in their development of practical skills
- To promote well developed hygiene, safety and organisational skills
- To teach students different methods of food preparation and cooking methods, focusing on key foods
- To familiarise students with the use of different tools, equipment and machines
- To encourage students to make informed choices that will promote healthy eating
- To introduce the Design Process and provide opportunities for students to design their own 'Pizza'
- To encourage the use of ICT in student learning, via online video tutorials of selected recipes

Subject Content

- Exploring food and nutrition principles using the Australian Guide to Healthy Eating
- An appreciation of the application of indigenous food items and their health benefits
- Application of processes in recipes
- Understanding the role of key foods in food preparation and cooking
- Familiarisation of food labelling laws
- An appreciation of sustainable environments
- Application of the design process to meet the needs of a design problem

Assessment

- Food productions- Working individually and in teams to produce food items
- Design Brief – Design a nutritious pizza in accordance to the design process
- Workbook- Completion of classwork, homework and production evaluations

Cost to student: \$55 (covered by Equity funds)

Food Technology Uniform: Black flat top chef hat and black bib apron provided by the school.

Dietary Requirements: Students individual dietary requirements will be enforced through recipe modification. All recipes are nut free.

Contact Person: Ms Kate Wallis