

CONTENTS

YEAR 9 & 10 SUBJECT SELECTION HANDBOOK

Introduction	2
Sports Science Academy Pathways	3
Year 9	4
Year 9 Curriculum and learning options	5
Year 9 Core & Sports Science Academy subject outlines	6-13
Year 9 Elective subject outlines	14-30
Year 10	31
Year 10 Curriculum	32
Year 10 Learning options	33
Year 10 Core subject outlines	34-37
Year 10 Elective subject outlines	38-59

INTRODUCTION

The Grange P-12 College is committed to building strong personal and learning skills to assist all students with current and future studies and career pathways of their first choice.

Each subject selection handbook (Years 7 & 8, 9 & 10, 11 & 12) contains a comprehensive outline of curriculum areas and subject offerings at The Grange P-12 College.

The handbooks are arranged in the following ways:

»» **Years 7 & 8:** outlines the core subjects that students will complete throughout the year across each discipline in line with the Victorian Curriculum.

»» **Years 9 & 10:** students are presented with a range of core (compulsory) and elective subjects. The elective subjects are intended to provide students with a range of experiences that may lead to further specialization during the later years of study. Some year 10 students may also be engaged in the early commencement program that sees them complete a VCE Unit 1 and 2.

»» **Years 11 & 12:** contains information about the Victorian Certificate of Education (VCE), The Victorian Certificate of Applied Learning (VCAL) and Vocational Education and Training (VET) studies for students. Parents and students are encouraged to select combinations of subjects that lead to their intended career and post – compulsory studies at tertiary institutions.

When selecting subjects and programs of study leading into the later years it is critical that students have formed a general idea of what career options are available beyond formal schooling. The College has well-developed programs that expose students to pathway options and staff who will assist with advice about appropriate courses to suit interests, aspirations and learning strengths.

Year 11 and 12 subject choices should also be made with consideration of materials costs for each subject, where relevant. Subjects that have a materials charge are those practical subjects which require specific materials or consumables that students will use throughout the program. A full listing of these charges is provided to parents and students alongside the relevant handbook.

Please note that the full suite of subjects and elective programs from Years 9-12 presented in these handbooks are held subject to availability and demand from students.



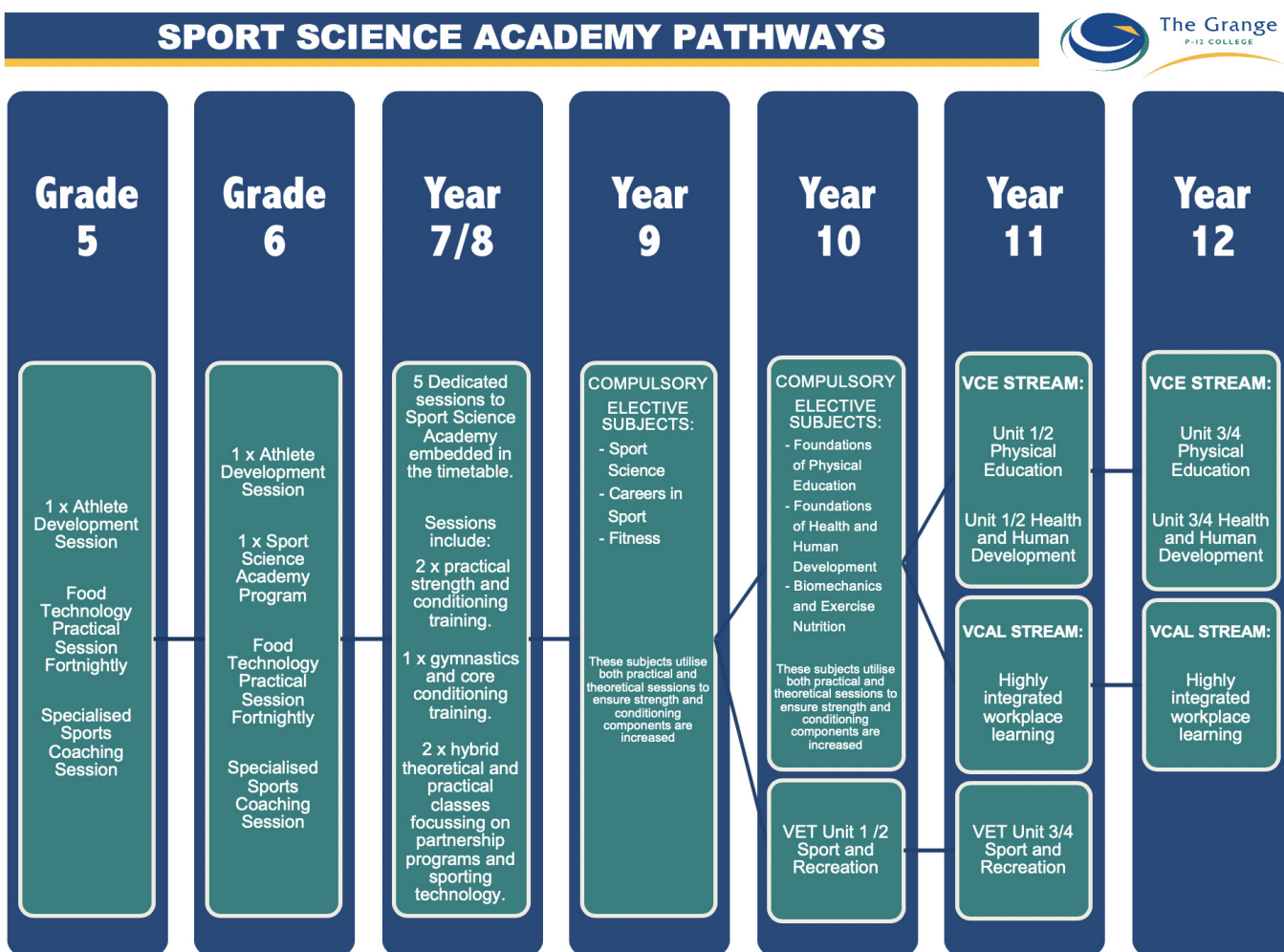
YEARS 5 to 12 PATHWAYS

Sports Science Academy

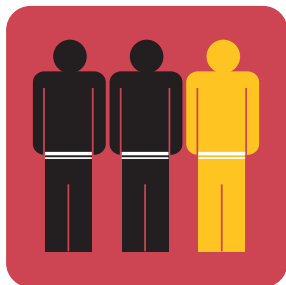
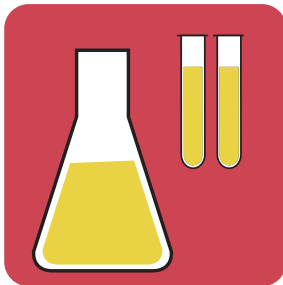
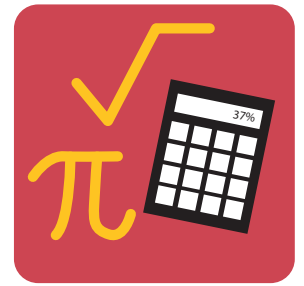
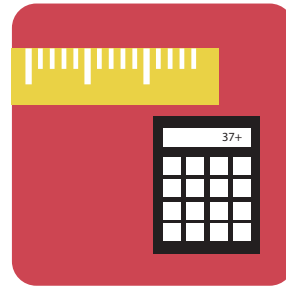
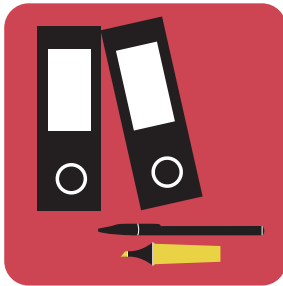
SUB-SCHOOL PROGRAM

Sport Science at The Grange P-12 College is an optional select entry program for students who wish to pursue their academic potential and schooling through a sporting lens. The program shares the College high expectations for students as they participate in and around sporting environments in a variety of different roles. Classes are offered to students from Grade 5 to Year 12 yearly, via an application process, with positions not guaranteed based on previous involvement in the Sport Science Academy. We encourage students to take their time applying for this program.

The Sport Science Academy offers a strong pathway through VCE, VCAL and/or VET to ensure students are able to complete and succeed in Year 12 studies in an appropriate yet challenging learning environment. See below the Sport Science Academy pathways and compulsory subjects from Grade 5 as outlined further in Subject Selection Handbook.



YEAR 9



CURRICULUM

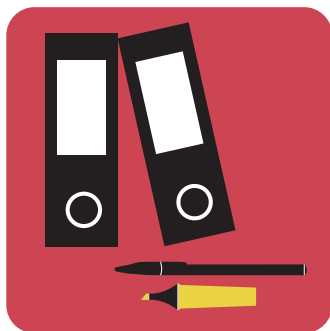
Year 9 Curriculum

The Year 9 Curriculum is designed to provide students with a comprehensive range of subjects based on the Victorian Curriculum. All Year 9 students undertake a common core set of subjects, with the addition of elective subjects. As Year 9 students are encouraged to begin to explore and make decisions about future pathways, they are offered a choice of electives within: the Arts, English, Maths, Humanities, Health and Physical Education, Food, STEM, Science and Sports Science. Each elective subject runs for 1 semester.

Please note that elective subjects are held based on student choice and subject availability.

LEARNING OPTIONS AVAILABLE TO YEAR 9 STUDENTS

	Core Subjects	Sessions Per Week	Semester Electives (Students choose a total of 4 elective for the year)	Sessions Per Week
YEAR 9	English	6	Hindi -High Achievers - "Namaste"	4
	Maths	6	Literature - Lost in Literature (<i>Semester 1</i>)	
	Science	3	Literature - Found in Fiction (<i>Semester 2</i>)	4
	Humanities	4	Maths – Bridging Maths (<i>Semester 1</i>)	4
	Health & Physical Education	3	Maths – Advancing Through Mathematics (<i>Semester 2</i>)	4
			Science - Forensic Science	4
			Humanities - History Extension	4
			Humanities - Geography Extension	4
			Careers in Sport	4
			Sports Science	4
			Fitness	4
			Food Studies	4
			The Arts - 2D Art	4
			The Arts - 3D Art	4
			The Arts - Visual Communication Design	4
			The Arts - Media	4
			The Arts - Music	4
			The Arts - Drama	4
			Game Design	4
			Web Design	4
	Core Subjects	22	Total Elective Subject Sessions	8
TOTAL of 30 Sessions Per Week				



YEAR 9 English

In Year 9 English students engage with a variety of texts for enjoyment. They interpret, create, evaluate, discuss and perform a wide range of literary texts in which the primary purpose is aesthetic, as well as texts designed to inform and persuade. These include various types of media texts: newspapers, film and digital texts, fiction, non-fiction, poetry, dramatic performances and multimodal texts, with themes and issues involving levels of abstraction, higher order reasoning and intertextual references. Students develop a critical understanding of the contemporary media, and the differences between media texts.

What will I Learn?

- » Skills for discussing increasingly complex issues and ideas from a variety of sources
- » The study of texts that explore themes of human experience and cultural significance, interpersonal relationships, and ethical and global dilemmas within real-world and fictional settings
- » Language study that includes a high proportion of unfamiliar and technical vocabulary, figurative and rhetorical language, and dense information supported by various types of graphics
- » Creative, persuasive, informative and text-response writing
- » Debating and Public Speaking skills
- » Collaborative communication skills
- » ICT creating and editing tools

What types of things will I do?

- » Reading and Viewing
- » Speaking and Listening
- » Film Study
- » Writing
- » Analysing texts
- » Group Discussions
- » Oral Presentations
- » Extended writing tasks

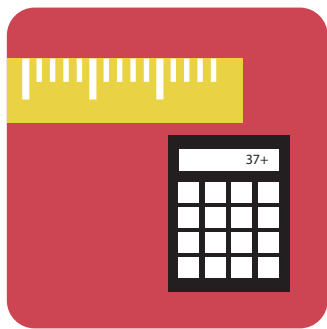
Where can this lead me?

Career Outcomes

- » Journalism, Media
- » Publishing
- » Creative Writing
- » Professional Writing and Editing
- » Advertising and Marketing
- » Government and Public Service

Course Pathways

English is a prerequisite for all future studies



YEAR 9 Maths

The Year 9 Mathematics Curriculum is built around creating further opportunities to continue enriching the lives of all students. Mathematics develops the mathematical capabilities that all students need in many aspects of their lives, and provides the fundamentals on which mathematical specialities and professional applications of mathematics are built.

Students engage with the Victorian Curriculum via inspiring, interesting, relevant and professionally taught lessons employed specifically to increase student capacity and confidence in mathematical ideas and concepts.

What will I Learn?

Students study patterns, skills applications and concepts within the three Key Strands:

- »» Number and Algebra
- »» Measurement and Geometry
- »» Statistics and Probability

What types of things will I do?

- | | | |
|------------------|-------------------------|--------------------------------------|
| »» Reading | »» Discussing | »» Problem Solving |
| »» Writing | »» Thinking | »» Calculating |
| »» Applying | »» Investigating | »» Challenging Mathematical Concepts |
| »» Consolidating | »» Enjoying Mathematics | |

Students are encouraged to maintain an approved “Bound Reference Notebook” (following the Year 12 VCAA guidelines) which is permitted in ALL assessments.

The program at The Grange P-12 College will provide opportunities for challenge and pursuit of excellence and students will be encouraged to participate in competitions like the University of Melbourne Mathematics Competition, Australian Mathematics Competition and the Australian Mathematics Intermediate Olympiad.

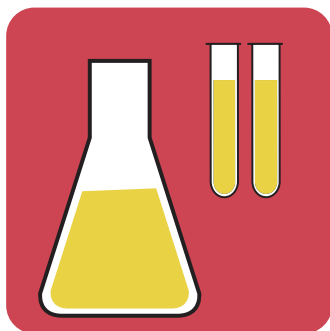
Where can this lead me?

Career Outcomes

- »» Engineering and Design
- »» Building and Construction
- »» Health Industry Sector
- »» Information and Communications Technologies
- »» Finance and Accounting
- »» Research and Development
- »» Hospitality and Tourism

Course Pathways

This pathway provides a solid preparation for Year 10 Maths



YEAR 9 Science

In Year 9 Science, students begin to add depth to their science knowledge, which will assist in preparing them for VCE science subjects. Students study a variety of topics including Chemistry, Physics, Biology and Earth and Space Science. Students will also further develop their practical inquiry and experimental skills by participating in more technical and rigorous experiments.

Students will also participate in a STEM unit - Wiring a model house. They will investigate how to wire a house using parallel and series circuits.

What will I Learn?

Students will learn about concepts in the following topics:

- »» Biology – Coordinated Human Body Systems
- »» Chemistry – Particle Theory, Radioactivity and Chemical Reactions

- »» Physics – Energy Transfers and Field Models
- »» Earth Science – Space Research Activity

Students will learn how to conduct practical experiments and investigations by:

- »» Defining an aim, controlling variables and researching hypotheses
- »» Planning and conducting a rigorous method
- »» Recording and processing results
- »» Analysing and evaluating their method and results
- »» Communicating and supporting their conclusions using scientific theory

What types of things will I do?

- »» Discover fascinating science concepts through a variety of activities including talks, videos, hands-on activities, independent and group work
- »» Conduct and observe a range of experiments, both inside and outside, the science laboratory
- »» Plan a variety of investigations and experiments

Where can this lead me?

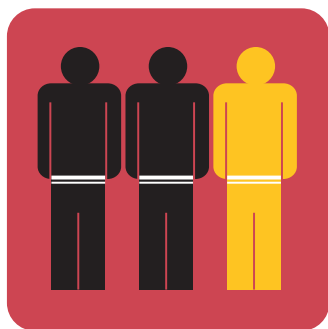
Career Outcomes

- »» Scientist
- »» Engineer
- »» Nurse
- »» Food scientist
- »» Research assistant
- »» Marine biologist
- »» Investigator
- »» Science journalist
- »» Doctor
- »» Vet or vet nurse
- »» Teacher
- »» Chemist
- »» Physiotherapist
- »» Physicist
- »» Laboratory assistant

Course Pathways

- Year 9: Science (core)
- Year 10: Psychology Elective
- VCE Unit 1-4: Chemistry
- Biology
- Physics
- Psychology

Humanities



Get ready to explore big events that shaped the modern world, such as the Industrial Revolution and World War One. Learn about how governments are formed, various political ideologies and examine how the Australian economy works so that you can become an informed economic participant and help to influence Australia's government in the future. Study Biomes to explore how humans impact the environment and devise plans to minimise our impact on the planet.

What will I Learn?

Students will study the following topics;

- »» The Industrial Revolution
- »» World War One
- »» How the Australian Economy works and our role within it
- »» Australia's political landscape
- »» Cultural diversity and ethical challenges faced by societies
- »» Biomes and Food Security

What types of things will I do?

- »» Analyse primary and secondary geographic, economic and historical data
- »» Look at sources of information with a critical lens
- »» Devise your own political campaign
- »» Excursion to Werribee Zoo (Grassland Biome fieldwork)
- »» Participate in a class Online Discussion Board and collaborate online with classmates
- »» Propose ways that humans can minimise their negative impact on the environment
- »» Learn how to search well using Google
- »» Research how the Australian economy works

Where can this lead me?

Career Outcomes

- »» Historian
- »» Archaeologist
- »» Economist
- »» Business Owner
- »» Business Manager
- »» Politician
- »» Journalist
- »» Law
- »» Cartographer
- »» Environmental consultant
- »» Biologist
- »» Park Ranger

Course Pathways

- Year 10
- Humanities
- VCE Unit 1-4:
- Business Management
- History
- Legal Studies



YEAR 9

Health & Physical Education

Through a combination of theory and practical lessons, students will develop knowledge, processes and skills that will allow them to make informed decisions about their own health and well-being. They will engage in team and individual activities to further their abilities on the playing arena and in the classroom. There is a heavy emphasis on teamwork via the SEPEP program.

What will I Learn?

»» Personal Fitness	»» Cricket	In theory lessons, students will cover topics that promote health.
»» Athletics	»» Touch Football	»» Physical and mental health
»» Golf	»» Baseball	»» Risk taking
»» SEPEP (Sport Education Through Physical Education Program)	»» Indoor Hockey	»» Building respectful relationships
	»» Gridiron - NFL	»» Sexual health

What types of things will I do?

»» Learn a variety of sports	»» Work in teams
»» Engage and participate in class discussions	»» Develop physical fitness

Where can this lead me?

Career Outcomes		Course Pathways	
»» Personal Trainer	»» Youth Counsellor	Year 10	Health & Physical Education
»» Professional Athlete	»» Massage Therapist		Exercise Physiology
»» Sports Coach	»» Sports Psychologist		Healthy Lifestyles
»» Nutritionist	»» Sports Journalist	VCE Unit 1-4:	Physical Education
»» Physiotherapist	»» Fitness Instructor		Health & Human Development
»» Physical Education	»» Nurse	VET	VET Sport & Recreation
»» Ambulance Officer	»» Sports Commentator		



YEAR 9 SPORTS SCIENCE ACADEMY Careers in Sport

- COMPULSORY SEMESTER SUBJECT SPORTS SCIENCE ACADEMY SUB-SCHOOL -
- SEMESTER ELECTIVE - NON-SPORTS SCIENCE ACADEMY SUB-SCHOOL STUDENTS -

Through a combination of theory and practical classes, this course gains students a Certificate II in Career Orientated Participation. This qualification reflects the role of individuals who apply the skills and knowledge to pursue a career as an athlete at a regional, state or territory level.

What will I Learn?

- »» Sport specific nutrition
- »» Legal and ethical responsibilities of an athlete/coach
- »» How to manage and coach a team
- »» How to identify hazards and risks during sport events
- »» Technology used in sport
- »» How to plan and implement a training program

What types of things will I do?

- »» Develop pre and post event nutrition
- »» Develop personal media skills
- »» Develop a personal management plan
- »» Participate in specific conditioning for allocated sports
- »» Perform tactics and game strategy in allocated sports
- »» Develop and update sport, fitness and recreation industry knowledge

Where can this lead me?

Career Outcomes

- »» Sports Coach
- »» Sports Management
- »» Sports Scientist
- »» Sports Psychologist
- »» Recreation Officer
- »» Sports Events Officer
- »» Professional athlete

Course Pathways

- | | |
|---------------|---|
| Year 10 | Biomechanics & Exercise Nutrition |
| | Foundations of Physical Education |
| | Foundations of Health and Human Development |
| VCE Unit 1-4: | Physical Education |
| | Health & Human Development |
| VET | Sport & Recreation |



YEAR 9 SPORTS SCIENCE ACADEMY

Sports Science

- COMPULSORY SEMESTER SUBJECT SPORTS SCIENCE ACADEMY SUB-SCHOOL -
- SEMESTER ELECTIVE - NON-SPORTS SCIENCE ACADEMY SUB-SCHOOL STUDENTS -

Through a combination of theory and practical lessons, students will develop a knowledge and understanding for the science behind improving sporting performance. Content will be focussed to improve students' own skills and those of others in various movement environments. Students will begin to critically analyse skills and movement concepts at a scientific level.

What will I Learn?

- »» Ways in which theoretical aspects will be integrated with practice and physical activity
- »» Functional anatomy
- »» Basic biomechanical and movement principles
- »» Factors that govern sports performance
- »» How athletes achieve elite performance in sport
- »» How the application of science is involved in the analysis and prescription of improved sports performance

What types of things will I do?

- »» Develop knowledge and understanding relating to physical activity
- »» Theory investigation and practical activity work
- »» Analyse skill acquisition from a biomechanical perspective
- »» Use technology to film and analyse skill acquisition and biomechanical principles

Where can this lead me?

Career Outcomes

»» Sports Coach

Sport Development

»» Physiotherapist

Personal Trainer

»» Gym Instructor

Sport and Recreation

Course Pathways

Year 10

VCE

VET

VCAL

Health and Physical Education
Fitness and Physiology
Healthy Lifestyles
Physical Education
Health and Human Development
Sport and Recreation
Sport Science Academy Course



YEAR 9 SPORTS SCIENCE ACADEMY Fitness

- COMPULSORY SEMESTER SUBJECT SPORTS SCIENCE ACADEMY SUB-SCHOOL -
- SEMESTER ELECTIVE - NON-SPORTS SCIENCE ACADEMY SUB-SCHOOL STUDENTS -

Through a combination of theory and practical lessons, students will develop a knowledge and understanding of the science behind improving sporting performance. Content will be focussed on improving students' own skills and those of others in various movement environments. Students will begin to critically analyse skills and movement concepts at a scientific level. We will also develop the knowledge and skills to measure and analyse fitness levels of themselves and others.

What will I Learn?

- »» Ways in which theoretical aspects will be integrated with practice and where applicable, related to physical activity
- »» Factors that govern sports performance, inc. fitness components and methods of fitness assessment
- »» Functional anatomy
- »» How the application of science is involved in the analysis and prescription of improved sports performance
- »» How athletes achieve elite performance in sport, inc. training methods, training principles and performance enhancement methods
- »» Basic biomechanical and movement principles

What types of things will I do?

- »» Develop knowledge and understanding relating to physical activity
- »» Theory investigation and practical activity work, inc. fitness testing and personal fitness programs
- »» Analyse skill acquisition from a biomechanical perspective

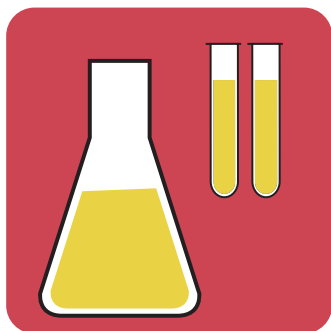
Where can this lead me?

Career Outcomes

- »» Sports Coach
- »» Gym Instructor
- »» Personal Trainer
- »» Physiotherapist
- »» Sports Development
- »» Sport and Recreation

Course Pathways

- | | |
|---------------|---|
| Year 10 | Biomechanics & Exercise Nutrition |
| | Foundations of Physical Education |
| | Foundations of Health and Human Development |
| VCE Unit 1-4: | Physical Education |
| | Health & Human Development |
| VET | Sport & Recreation |



YEAR 9 Forensic Science

- ELECTIVE -

An engaging STEM subject that enables students to develop their knowledge and understanding of forensic science - including crime scene analysis. Students learn about, and use, different analytical techniques such as fingerprinting, tyre tracking, blood typing, blood spatter analysis, DNA analysis plus many more! Students perform experiments using these techniques to solve staged crimes and learn to evaluate their use in the real world.

What will I Learn?

- »» What types of evidence of a crime exist
- »» How physical evidence is collected
- »» Finger and foot printing and many more!
- »» How to perform crime scene analysis
- »» How forensic science is used by police and scientists in the real world
- »» How to perform forensic evidence analysis
- »» Using problem-solving techniques to evaluate information and propose solutions
- »» Chromatography
- »» DNA analysis
- »» Blood spatter analysis
- »» How you could continue studying to become a forensic scientist
- »» Applying scientific reasoning to assess information and scientific claims

What types of things will I do?

- »» Learning different types of evidence collection
- »» Solving various crimes using clues and evidence
- »» Opportunities to participate in relevant scientific incursions and excursions

Where can this lead me?

Career Outcomes

- »» Forensic Scientist
- »» Engineering
- »» Police Officer
- »» Medicine
- »» Psychology
- »» Law Enforcement
- »» Lawyer
- »» Crime Scene Investigator

Course Pathways

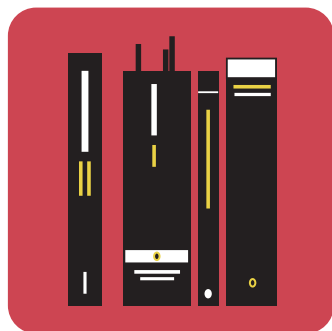
- VCE Unit 1-4:
- Biology
 - Physics
 - Chemistry
 - Psychology

YEAR 9
LITERATURE

Multimodal Literature:

Understanding and Creating Comics

- SINGLE SEMESTER ELECTIVE -



Come and discover the visual worlds of graphic novel. Analyse and discuss how writers and artists imaginatively convey the human experience through the combination of text and imagery. You will have the opportunity to develop your very own comic that uses some of the text structures and language features of graphic novels. Artistic skills are optional - you can convey your ideas through visual language or a combination of both.

What will I Learn?

- »» Text Analysis
- »» Visual Analysis
- »» Features of graphic novels and comics
- »» Creative writing skills
- »» Skill for in-depth discussions of complex issues

What types of things will I do?

- »» Reading and analysing comics and graphic novels
- »» Creating your own graphic novel
- »» Group discussions
- »» Editing and proofreading

Where can this lead me?

Career Outcomes

- »» Journalism
- »» Media Studies
- »» Liberal Arts

»» Education

»» Professional Writing and Editing

Course Pathways

VCE Unit 1-4: Literature
VCE Unit 1-4: English



YEAR 9 LITERATURE Lost In Literature

- SINGLE SEMESTER ELECTIVE -

Authors create worlds for us to get lost in. You will have the opportunity to step into these worlds and delve deeper into the messages and themes they present. You will explore how literature can give us insight into other people's perspectives, but also allow us to unpack our own understanding of the world around us.

You will have the opportunity to investigate how other people have told their life stories and adapt their strategies and themes in your own writing. In doing so, you will learn how to tell life stories in a meaningful and engaging way.

What will I Learn?

- » Text Analysis – verbal and written
- » Creative Writing Skills
- » How to select and use evidence to support written responses
- » Editing techniques
- » Skills for in-depth discussions of complex issues

What types of things will I do?

- » Reading and analysing fiction and non-fiction texts
- » Creating your own non-fiction text
- » Group discussions
- » Passage analysis responses

Where can this lead me?

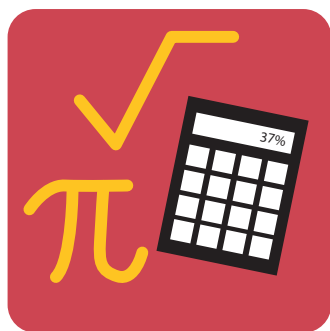
Career Outcomes

- » Journalism
- » Media Studies
- » Liberal Arts

- » Professional writing and editing
- » Education

Course Pathways

- VCE Unit 1-4: English
- VCE Unit 1-4: Literature



YEAR 9
MATHS

"Advancing Through Mathematics"

- SINGLE SEMESTER ELECTIVE -

The Year 9 Advanced Mathematics Elective is designed to cater for extending all students with a specific interest and capacity in mathematical problem solving. Mathematical ideas have evolved across all cultures over thousands of years, and are constantly developing. This elective is taught for a semester and designed at an extended Level 10 standard.

What will I Learn?

At The Grange, we aim to instil in students an appreciation of the elegance and power of mathematical reasoning. The curriculum focuses on developing increasingly sophisticated and refined mathematical understanding, fluency, logical reasoning, analytical thought and problem-solving skills. These capabilities enable students to respond to familiar and unfamiliar situations by employing mathematical strategies to make informed decisions and solve problems efficiently.

These mathematical tasks are designed to develop the following skills:

- »» Questioning, flexibility, reasoning, creativity and reflection
- »» Cooperative and communication skills through group work
- »» A positive attitude towards Mathematics
- »» Competent and confident users of technology. All of these skills are measured by student performance in individual class work, co-operative group work, problem solving, investigation tasks and tests

What types of things will I do?

- | | | |
|---------------|--------------------------------------|--------------------------|
| »» Reading | »» Challenging mathematical concepts | »» Problem solving |
| »» Writing | »» Calculating | »» Consolidating |
| »» Discussing | »» Applying | »» Enjoying mathematics. |
| »» Thinking | »» Investigating | |

The program at The Grange P-12 College will provide opportunities for challenge and pursuit of excellence and students will be encouraged to participate in competitions like the University of Melbourne Mathematics Competition, Australian Mathematics Competition, and the Australian Mathematics Intermediate Olympiad.

Where can this lead me?

Course Pathways

- »» This pathway provides a concrete preparation for Year 10 Maths AND a substantially robust base leading into the Year 10 Advanced Mathematics Elective which is a prerequisite for Mathematical Methods and / or Specialist Mathematics in Year 11.



YEAR 9
GEOGRAPHY

Geography Extension

- SINGLE SEMESTER ELECTIVE -

Take a tour of the many amazing places around the world! In Geography students will study environmental change and use key Geography concepts to explore the liveability of places. Find out who visits Australia and create a tourism campaign for the city of Melbourne. Learn about the impact of tourism on living conditions and environments around the world. This subject is perfect for students who are interested in different places and cultures around the world. "The world is a book and those who don't travel only open one page!"

What will I Learn?

- »» How to conduct fieldwork
- »» Virtual tours of natural and man-made tourist attractions in Australia and one selected nation
- »» How the environment is affected by and impacts on human living conditions
- »» Use of digital and spatial technologies to collect and evaluate field-work data
- »» The seven key geographical concepts

What types of things will I do?

- »» Create a marketing campaign for the city of Melbourne
- »» Create a chapter for the Lonely Planet Guide
- »» Survey people to gather geographic data
- »» Conference calls with experts
- »» Develop an environmental management plan for the Grange P-12 College and collect data at the school and in the field
- »» Learn how to use Geographical Information Systems (GIS)
- »» Kahootz and online quizzes

Where can this lead me?

Career Outcomes

- »» Tourism
- »» Cartographer
- »» Town planner
- »» Travel Agent
- »» Surveyor
- »» Advertising
- »» Marketing
- »» Environmentalist



YEAR 9 FOOD Food Studies

- SINGLE SEMESTER ELECTIVE -

Through a combination of theory and practical lessons, students will expand their knowledge and skills from previous years. Over a semester they will create basic snacks and meals based on the idea of healthy eating.

What will I Learn?

- »» Kitchen Safety and Hygiene
- »» Meal planning and design
- »» To respond to a design brief
- »» Bread making skills for life
- »» Big event product and presentation skills

What types of things will I do?

- »» Sensory evaluations of food
- »» Plan and create a healthy meal for teenagers
- »» Use yeast to make a variety of bread products
- »» Participate in a showcase event with your bread product

Where can this lead me?

Career Outcomes

- »» Chef
- »» Nutritionist
- »» Restaurant Manager
- »» Hospitality Events

Course Pathways

- | | |
|---------------|-----------------|
| Year 10 | Food |
| VCE Unit 1-4: | Food Studies |
| VET | VET Hospitality |



YEAR 9 THE ARTS 2D Art

- SINGLE SEMESTER ELECTIVE -

Students will have the opportunity to explore the visual arts practices and styles of Australian and International artists as inspiration to develop a personal style, explore and express ideas, concepts and themes in art works.

The students will explore how artists manipulate materials, techniques, technologies and processes to develop and express their intentions in art works and use these techniques to develop their own artworks.

Students analyse and evaluate artworks and exhibitions from different cultures, times and places, and discuss how ideas and beliefs are interpreted by audiences.

What will I Learn?

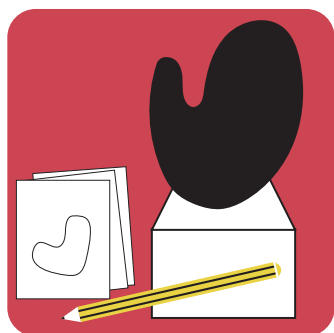
- »» Materials and Techniques
- »» Observational Drawing
- »» Rendering Techniques
- »» Printmaking, Painting and Drawing
- »» Australian and International Artists

What types of things will I do?

- »» Developmental sketches
- »» Lino printing artworks
- »» Artist studies

Where can this lead me?

Career Outcomes		Course Pathways	
»» Artist/ Printmaker	»» Designer	Year 10	Visual Communication Design
»» Illustration	»» Architecture		2D Art
»» Industrial Design	»» Photography		3D Art
»» Game Design	»» Fashion Design		Media
»» Advertising	»» Education		Photography
»» Animation		VCE Unit 1-4:	Studio Art
			Media
			Visual Communication Design



YEAR 9 THE ARTS 3D Art

- SINGLE SEMESTER ELECTIVE -

Students will have the opportunity to explore the visual arts practices and styles of Australian and International artists as inspiration to develop a personal style, explore and express ideas, concepts and themes in art works.

The students will explore how artists manipulate materials, techniques, technologies and processes to develop and express their intentions in art works and use these techniques to develop their own artworks.

Students analyse and evaluate artworks and exhibitions from different cultures, times and places, and discuss how ideas and beliefs are interpreted by audiences.

What will I Learn?

- »» Ceramics and Sculpture
- »» Australian and International Artists
- »» 3D construction techniques

What types of things will I do?

- »» Developmental sketches using materials and techniques
- »» Clay coil construction
- »» Artist studies
- »» Sculpture

Where can this lead me?

Career Outcomes		Course Pathways	
»» Artist/ Printmaker	»» Designer	Year 10	Visual Communication Design
»» Illustration	»» Architecture		2D Art
»» Industrial Design	»» Photography		3D Art
»» Game Design	»» Fashion Design		Media
»» Advertising	»» Education		Photography
»» Animation		VCE Unit 1-4:	Studio Art
			Media
			Visual Communication Design



YEAR 9
THE ARTS

Visual Communication Design

- SINGLE SEMESTER ELECTIVE -

Students will have the opportunity to demonstrate their use and understanding of visual communication design skills, techniques, conventions and processes in a range of design fields, such as the Communication, Environmental and Industrial.

The students will develop and present visual communications using the design process that demonstrate the application and manipulation of methods, materials, media, design elements and design principles that meet the requirements of a specific brief

Students will use manual and digital drawing methods to create visual communications in the specific design fields of Environmental, Industrial and Communication Design

Students will analyse and evaluate the factors that influence design decisions in a range of visual communications from different historical, social and cultural contexts as well as evaluate the use of methods, media, materials and design elements and principles.

What will I Learn?

- »» Elements and principles of design
- »» Design process
- »» Folio building
- »» Use Adobe Photoshop and Illustrator
- »» Perspective drawings

What types of things will I do?

- »» Rendering techniques
- »» Poster design
- »» Create a logo using the design process
- »» Use a T square and set square to complete architectural drawings
- »» Perspective drawings

Where can this lead me?

Career Outcomes

- »» Artist/ Printmaker
- »» Illustration
- »» Industrial Design
- »» Game Design
- »» Advertising
- »» Animation

- »» Designer
- »» Architecture
- »» Photography
- »» Fashion Design
- »» Web Design
- »» Education
- »» Interior Design

Course Pathways

- Year 10
 - Visual Communication Design
 - 2D Art
 - 3D Art
 - Media
 - Photography
- VCE Unit 1-4:
 - Studio Art
 - Media
 - Visual Communication Design



YEAR 9
THE ARTS

Media Studies

- SINGLE SEMESTER ELECTIVE -

Students have the opportunity to create a digital portfolio based upon a chosen theme.

Students will explore the technical aspects of the digital camera to explore symbolic elements within their themes. Students will develop their own opinion about the influence of Media in today's society, by looking at various genres of film and media.

The students will learn techniques to manipulate and make representations and meaning in film production.

What will I Learn?

- »» What makes up photography
- »» Parts of the camera
- »» How to use a DSLR camera
- »» Film analysis
- »» Adobe Photoshop
- »» Elements of film making

What types of things will I do?

- »» Camera activities
- »» Manipulate photographs using Adobe
- »» Create a digital portfolio
- »» Create a short film
- »» Watch and analyse films
- »» Write scripts

Where can this lead me?

Career Outcomes

- »» Photographer
- »» Film maker
- »» Sound production
- »» Film critic
- »» Cinematographer

Course Pathways

- | | |
|---------------|-----------------------------------|
| Year 10 | Multimedia, photography and video |
| VCE Unit 1-4: | Media |



YEAR 9 THE ARTS Music

- SINGLE SEMESTER ELECTIVE -

Music learning combines listening, performing and composing activities. These activities, developed sequentially, enhance students' capacity to perceive and understand music. As students progress in their study of Music, they learn to value and appreciate the power of music to transform the heart, soul, mind and spirit of the individual. In this way students develop an aesthetic appreciation and enjoyment of music.

What will I Learn?

- »» History of the Blues
- »» Music in advertising
- »» Rhythmic playing on the keyboard
- »» Ensemble
- »» 12 Bar Blues structure
- »» Blues scale
- »» History of Rock n Roll

What types of things will I do?

In Year 9 through listening, performing and composing, students will be able to identify cultural, social and historical contexts of music. Students will also accumulate skills in rhythm, pitch and musicianship.

Typically in Year 9 we use the following assessments:

- »» Play the keyboard and ukulele individually
- »» Individual performance
- »» Written Assessment- Instruments of the Orchestra
- »» Practical assessments
- »» Ensemble performance Aural Listening Assessment
- »» Tests

Where can this lead me?

Career Outcomes

- »» Musician
- »» Song Writer
- »» Video game composer
- »» Music Therapist
- »» Music Producer
- »» Composer
- »» Recording Engineer
- »» Music Teacher

Course Pathways

Year 10 Music



YEAR 9
THE ARTS

Drama

- SINGLE SEMESTER ELECTIVE -

In this elective course, students will build skills, knowledge and experience in Drama as a creative and performing art. Students explore the dramatic elements of role and characterisation through their studies of improvisation and the theatre genre of Commedia Dell'Arte. They explore the historical and cultural contexts of mask in theatre and learn to identify and respond to the audience and actor relationship that has continued to evolve from these traditional performance styles. Students are given the opportunity to design and make masks and present their design choices and interpretations. Students will continue to develop basic communication and presentation skills as well as improve their confidence and ability to work collaboratively with others. They will explore the creative, theoretical and critical concepts of theatre and the playmaking process to enhance meaning and audience engagement in a devised ensemble about Humans Vs Technology.

What will I Learn?

Drama Practice:

- »» Acting workshops
- »» Theatre sports
- »» Watching theatre for inspiration
- »» Script analysing/writing
- »» Design props

Acting and stagecraft in Performance:

- »» Evaluation of stagecraft in performance
- »» Transformation of objects

Form and style:

- »» Dramatic elements
- »» Theatrical conventions
- »» Play scripts

Play-building:

- »» Performance
- »» Improvisation

What types of things will I do?

- »» Method acting
- »» Script writing
- »» Performance styles
- »» Improvisation
- »» Performing in front of an audience
- »» Monologue
- »» Dialogue
- »» Commedia Dell'Arte
- »» Theatrical brief
- »» Ensemble piece
- »» Design/evaluate stagecraft

Where can this lead me?

Career Outcomes

- »» Entrepreneur
- »» Humanitarian
- »» Educator
- »» Actor
- »» Hospitality
- »» Critical thinker
- »» Entertainer
- »» Designer – set, dress, make-up
- »» Writer
- »» Teaching

Course Pathways

- Year 10
- Media
- Literature
- VCE Unit 1-4:
- Media
- Literature



YEAR 9
ICT

Game Design

- SINGLE SEMESTER ELECTIVE -

Have you ever wondered what goes into making the games you love to play? We will discover how it is done! We have the opportunity to take games from a 2D platform to making your own virtual reality game! You will learn skills in coding, game design, marketing and prove yourselves to be an innovative 21st-century creator!

What will I Learn?

- »» - Game Development in the 21st-century
- »» How to use Design Thinking to make a product
- »» How to use Coding (GameMaker to virtual reality!)
- »» How to sell a product

What types of things will I do?

- »» Discover what makes a good game
- »» Learn about different game types
- »» Explore the gaming industry
- »» Talk to real game developers
- »» Talk to Youtubers who make their living from promoting games
- »» Design and make your own game - maybe even get a famous Youtuber to play it!

PLEASE NOTE: THIS COURSE HAS HIGH LEVEL CODING INVOLVED AND IS NOT ABOUT JUST PLAYING GAMES. BE AWARE YOU WILL BE EXPECTED TO LEARN CODING THROUGHOUT THE COURSE.

Where can this lead me?

Career Outcomes

- »» Game design and development
- »» Game industry, simulation and virtual reality
- »» Film and animation
- »» 3D Graphic design and robotics
- »» Software design and development

Course Pathways

- VCE Unit 1-4: Informatics
- VET Media



YEAR 9 ICT Web Design

- SINGLE SEMESTER ELECTIVE -

Students are able to create purposeful, powerful communication using innovative web technology to empower them to share their voice with the international community. Students will research, develop and create professional websites using Dreamweaver, graphics software and video editing to help solve specific relevant issues of today's world. 21st Century innovative STEM tools and learning are embedded into this course as the students' reach beyond the classroom and become part of the international community.

What will I Learn?

- »» Discuss and analyse range of current websites
- »» The Student Voice – Adding value to the International message with Website development
- »» How to apply the design process to create a simple website
- »» Apply innovation thinking skills

What types of things will I do?

- »» Undertake a project to create your own website
- »» Research alternate web designs
- »» Collect and analyse feedback
- »» Revise and publish the website
- »» Explore the challenge or problem to solve
- »» Develop a prototype website
- »» Apply a range of 21st Century Skills to the design an development of your website

Where can this lead me?

Career Outcomes

- »» Web design and development
- »» Software design and development
- »» Digital publication and advertising
- »» Digital Graphic Design
- »» Scripting and programming

Course Pathways

VCE Unit 1-4: VCE Application Development



YEAR 9 HINDI "Namaste"

- FULL YEAR ELECTIVE -

This course aims to develop the knowledge, understanding and skills to ensure that student capacity is developed in communicating in Hindi. Emphasis will be placed on understanding the relationship between language, culture and learning. Students will also continue to be exposed to the culture of India and further develop intercultural capabilities. Broadening their ability to understand themselves as communicators of Hindi.

What will I Learn?

Students will be exposed to the language through the following themes:

- »» At home
- »» Cultural influences
- »» Festivals
- »» Values and beliefs

Students will increase their cultural awareness about:

- »» Respect for diversity and difference
- »» Cognizance interconnected and interdependent world
- »» Understanding of their cultural heritage, values and beliefs
- »» Understanding of language and culture
- »» Openness to different experiences and perspectives

What types of things will I do?

Within these themes students will continue to consolidate their learning of:

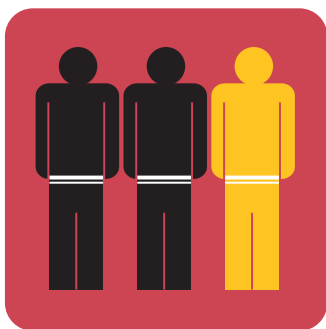
- »» Relationship between the sounds of spoken Hindi and elements of the Devanagari script
- »» Key elements of the Hindi grammatical and vocabulary systems
- »» Vocabulary – increase their repertoire
- »» Characterise different types of literary, instructional, persuasive or imaginative texts in Hindi
- »» Writing of conjunct characters and the combinations of vyanjans and matras
- »» Articulate sentence structures, use of pronouns, postpositions and gender agreements
- »» Articulated prepositions and their uses with nouns
- »» Grammar such as word order and adjective agreement

Where can this lead me?

Career Outcomes

Course Pathways

»» Public relations	»» Media	»» Tourism	Year 10 Hindi
»» Commerce	»» Architecture	»» Hospitality	VCE Hindi
»» Translating	»» Film industry	»» Education	
»» Editing and Publishing	»» Interpreting	»» Music	
»» Airline services	»» Foreign civil service	»» Event management	
»» Subtitles and Voice overs	»» Tourism\Hotel management	»» Import\Export specialist	



YEAR 9 HUMANITIES

History Extension

- SINGLE SEMESTER ELECTIVE -

Ever wondered how historians create documentaries or Podcasts about the past? In this unit students will explore the process involved in selecting a historical topic, forming questions, researching them and putting it all together for an audience. In the first Area of Study students co-create a historical inquiry with their teacher about life in Indian society between 1750 and 1918. Students will then select a country that they are interested in and complete an independent historical inquiry project to share with their class. Students will present their findings in a Podcast episode or documentary! Get ready to make history in this exciting elective.

What will I Learn?

- »» Skills of historical inquiry
- »» Testing hypotheses
- »» How to explore historical perspectives and communicate an original historical argument
- »» How to locate and interrogate sources using digital technologies

What types of things will I do?

- »» Show agency by co-selecting key topics in collaboration with the class and the teacher
- »» Collaborate with others (both in the school and outside the school) to develop research skills
- »» Plan a documentary or Podcast episode.

Where can this lead me?

Career Outcomes

- »» Education
- »» Accounting
- »» Law
- »» Business
- »» Social work
- »» Geography
- »» History
- »» Journalism

Course Pathways

- VCE Unit 1-4:
- Legal Studies
 - History
 - Business Management
 - Global Politics



YEAR 9 MATHS Bridging Maths

- SINGLE SEMESTER ELECTIVE -

The Year 9 Bridging Mathematics Elective is designed to cater to cover essential foundation skills and knowledge in mathematics, to help build students' confidence and independence. Students who have experienced difficulty in the core mathematics will benefit from taking this course. The focus will be to identify areas of study where there is a need to consolidate knowledge and strengthen the skills addressed in the core curriculum.

What will I Learn?

At The Grange, we aim to consolidate foundational mathematic skills to ensure our students are capable of the key knowledge skill base necessary to progress throughout high school and have the best chance at succeeding in mathematics.

The mathematical tasks are designed to develop the following skills:

- »» Consolidation of core mathematical skills through individual work, feedback, self-reflection, and support
- »» Cooperative and communication skills through group work
- »» A positive attitude towards Mathematics

What types of things will I do?

- | | | |
|---------------|-------------------------------|-------------------------|
| »» Reading | »» Core mathematical concepts | »» Consolidating |
| »» Writing | »» Calculating | »» Enjoying mathematics |
| »» Discussing | »» Thinking | |

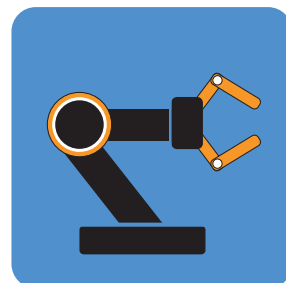
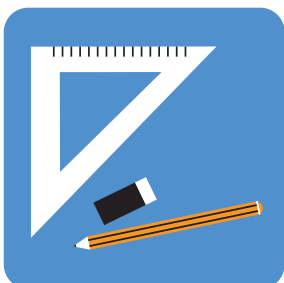
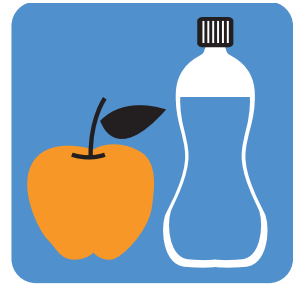
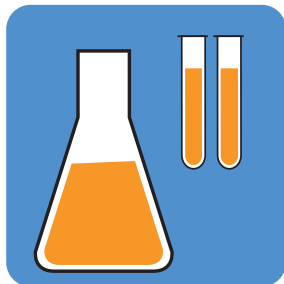
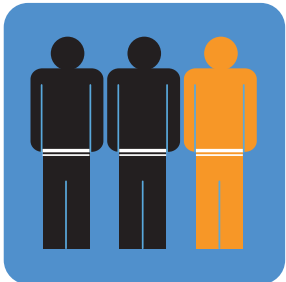
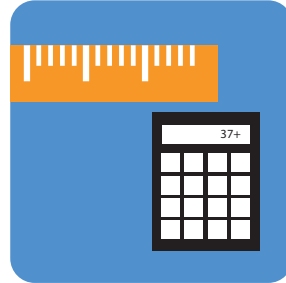
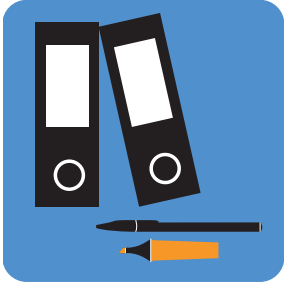
The program at The Grange P-12 College will support the consolidation of foundational mathematical skills through the provision of a syllabus as adjunct to the core syllabus, helping to review issues in the students' skill base, and provide support where students require it.

Where can this lead me?

Course Pathways

This pathway provides a basis to students who are interested in strengthening their key math skills, developing their foundational mathematics to ensure a strong skill base to progress to core Year 10 mathematics.

YEAR 10



YEAR 10

CURRICULUM

The Year 10 program is designed to provide students with access to a range of subjects that prepare them for future studies. At Year 10, direct links are made with the key knowledge and skills required for successful completion of VCE and VCAL. In Year 10, students will study 6 subjects each semester. Students will study each unit for five periods per week. Core units are compulsory and students will have the opportunity to choose four electives over the year.

Please note that elective subjects are held based on student choice and subject availability.

Mainstream Classes

Core Units:

- | | |
|----------------|---------------|
| »» English | »» Science |
| »» Mathematics | »» Humanities |

Electives:

Students study four subjects over the year, (two per semester). Students will choose from the following areas:

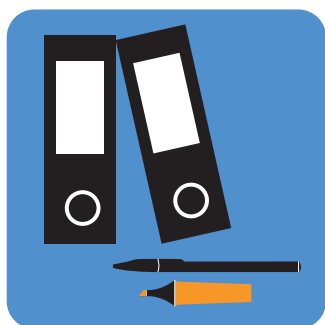
- | | |
|----------------|-------------|
| »» Health & PE | »» The Arts |
| »» Technology | »» English |
| »» Mathematics | »» Science |
| »» Humanities | |

VCE Access (Studying a VCE subject in Year 10)

All students currently in 9A are strongly encouraged to complete a VCE Unit sequence as one of their elective choices. Students in mainstream classes may study VET Hospitality, VET Sport and Recreation and VET Hairdressing upon successful recommendation from Years 9 & 10 Assistant Principal and Year Level Leaders.

LEARNING OPTIONS AVAILABLE TO YEAR 10 STUDENTS

	Core Subjects	Sessions Per Week	Electives-Full Year (2) (That may be offered)	Sessions Per Week
YEAR 10	English	5	Literature - Creative Writing and Literature	5
	Maths	5	Mathematics - Fundamental Mathematics (<i>semester 1</i>)	5
	Science	5	Mathematics - Introduction to Maths Methods (<i>semester 2</i>)	5
	Humanities	5	Science - General Science Enrichment	5
			Science - Psychology	5
			Humanities - <i>Geography and History extension -Future Societies</i>	
			Humanities - <i>Financial Literacy</i>	5
			Humanities - <i>History Extension Elective</i>	5
			Humanities - <i>Legal Studies</i>	5
			Health & Physical Education - <i>Biomechanics and Exercise Nutrition</i>	5
			Health & Physical Education - <i>Foundations of Health and Human Development</i>	5
			Health & Physical Education - <i>Foundations of Physical Education</i>	5
			Food Studies	5
			The Arts - 2D Art	5
			The Arts - 3D Art	5
			The Arts - Visual Communication Design	5
			The Arts - Multimedia and Digital Photography	5
			The Arts - Multimedia Digital Video	5
			The Arts - Music	5
			The Arts - Drama	5
			Computing Informatics - <i>21st Century Robots</i>	5
			Computing Informatics - <i>Application Development</i>	5
	Total sessions for core subjects	20	Total sessions for elective subjects	10
TOTAL of 30 sessions per week				



YEAR 10 English

The Year 10 English curriculum is built around the three connected strands of Language, Literature and Literacy. Together the strands focus on developing students' knowledge, understanding and skills in listening, reading, viewing, speaking, writing and creating.

Students engage with a variety of texts for enjoyment. They interpret, create, evaluate, discuss and perform a wide range of literary texts in which the primary purpose is aesthetic, as well as texts designed to inform and persuade. Texts at The Grange include various types of media texts, including newspapers, film and digital texts, fiction, nonfiction, poetry, dramatic performances and multimodal texts. Students develop critical understanding of the contemporary media, and the differences between media texts.

What will I Learn?

- »» Students evaluate how text structures can be used in innovative ways by different authors
- »» Students explain how the choice of language features, images and vocabulary contributes to the development of individual style
- »» They develop and justify their own interpretations of texts. They evaluate other interpretations, analysing the evidence used to support them
- »» Students make presentations and contribute actively to class and group discussions
- »» Students explain different viewpoints, attitudes and perspectives through the development of cohesive and logical arguments
- »» Students develop their own writing style by experimenting with language features, stylistic devices, text structures and images
- »» Students create a wide range of texts to articulate complex ideas
- »» Students build on others' ideas, justifying opinions and developing and expanding on issues and texts

What types of things will I do?

- »» Reading
- »» Writing
- »» Speaking and Listening
- »» Analysing texts
- »» Group Discussions
- »» Oral Presentations
- »» Extended writing tasks

Where can this lead me?

Career Outcomes

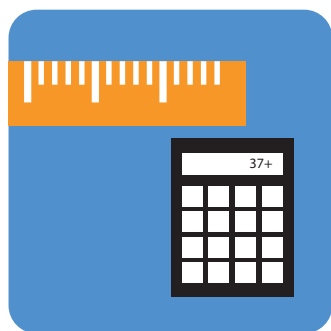
- »» Journalism
- »» Media
- »» Publishing

- »» Editing
- »» Creative Writing
- »» Advertising and Marketing

Course Pathways

- | | |
|---------------|------------|
| VCE Unit 1-4: | English |
| | EAL |
| | Literature |

Mathematics



Year 10 Mathematics presents materials for students to have a pathway towards VCE Foundation Mathematics, General Mathematics and Mathematics Methods CAS.

The Year 10 Mathematics Core Curriculum is built around the three interconnected strands of Measurement and Geometry, Number and Algebra, and Statistics and Probability.

The curriculum is focussed around the four Proficiency Scales of Understanding, Fluency, Problem Solving and Reasoning, to develop and promote interest, enjoyment, skills and applied knowledge in Mathematics.

What will I Learn?

Students study patterns, skill applications and concepts within the three Key Strands:

- »» Number and Algebra
- »» Measurement and Geometry
- »» Statistics and Probability

What types of things will I do?

- »» Number skill development
- »» Measurement and Geometry focussed on applications of skills in practical situations
- »» Statistics development and focus on 'real world' issues
- »» Algebra skills adapting to providing solutions
- »» Probability understanding and utilisation of interpretation of events and data

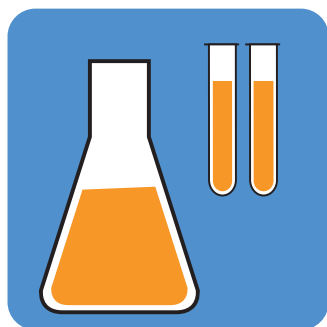
Where can this lead me?

Career outcomes

- »» Nursing
- »» Physiotherapy
- »» Medicine
- »» Teaching
- »» Engineering
- »» Health

Course Pathways

This pathway provides a solid preparation for VCE Foundation and General Mathematics



YEAR 10 Science

Science is the study of how things work in the physical and natural world. In this year 10 course, we learn: how to harness chemical reactions, the fundamentals of genetics and the evolution of organisms, how forces and energy interact in moving objects, how advancements in technology are changing what we know about the Universe and how the world around us is part of a delicate ecosystem. We also learn how to conduct scientific experiments and perform in depth analyses and evaluations of scientific claims. All topics have a focus on real-world applications.

This subject prepares students with the scientific literacy to be able to make informed decisions as a global citizen as well as the scientific fundamentals to be able to progress to VCE science subjects.

What will I Learn?

- »» Why elements and chemicals have different properties
- »» How and why objects move
- »» How to use different types of chemical reactions for our own, and society's benefit
- »» How the natural world around us has evolved and is continuing to evolve
- »» What genetics is and how it influences our characteristics and health
- »» How everything on Earth exists as part of a delicate cycle, and how we influence these cycles
- »» Using problem-solving techniques to evaluate information and propose solutions
- »» The latest research on Space exploration and theories supporting the origins of the Universe
- »» How energy can be transferred and transformed
- »» Applying scientific reasoning to assess information and scientific claims

What types of things will I do?

- »» Participating and designing experiments
- »» Opportunities to participate in relevant scientific excursions
- »» Making models and representations of scientific systems
- »» Opportunities to participate in national science competitions

Where can this lead me?

Career Outcomes

- »» Scientist
- »» Engineer
- »» Medicine
- »» Health
- »» Builder

- »» Veterinary Science
- »» Animal Studies
- »» Sports Science
- »» Education

Course Pathways

- | | |
|---------------|------------|
| VCE Unit 1-4: | Biology |
| | Physics |
| | Chemistry |
| | Psychology |
| VET | Automotive |



YEAR 10 Humanities

All students in Year 10 undertake a Humanities Sampler. This is a compulsory year-long subject in which students investigate units from a selection of History, Geography, Economics and Business Studies. Knowledge is power and in this unit students come to understand the complex world in which they live from a variety of perspectives.

What will I Learn?

- »» History – World War Two and life in Nazi Germany
- »» Geography – How to unpack perspective in sources to understand others points of view
- »» Wellbeing and the International Community
- »» Cultural diversity and ethical challenges faced by societies
- »» Key discipline specific skills such as analysis of sources, working with media sources and preparing for exam success
- »» Economics Performance and the Business environment
- »» Research skills (collection of data and field work)

What types of things will I do?

- »» Meet a Holocaust survivor at the Holocaust Museum
- »» Participate in the annual Grange Economic Challenge
- »» Select a careers topic you are interested in learning
- »» Learn critical examination skills to help you succeed in the VCE
- »» Create a Nuremberg Trial exhibit to display in a year level exhibition
- »» Assess research sources for reliability and accuracy

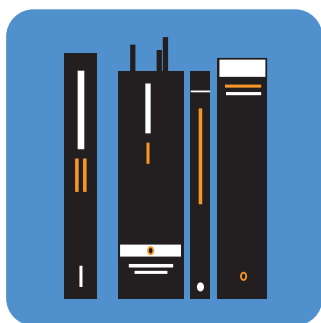
Where can this lead me?

Career Outcomes

- »» Education
- »» Law
- »» Social work
- »» History
- »» Accounting
- »» Business
- »» Geography
- »» Journalism

Course Pathways

- VCE Unit 1-4:
- Legal Studies
 - History
 - Business Management
 - Global Politics



YEAR 10 LITERATURE

Creative Writing & Literature

- SINGLE SEMESTER ELECTIVE -

Do you love to read or write original creative responses? If you answered *yes* to either of these questions, then this is the subject for you! The Creative Writing and Literature elective will provide you with the opportunity to engage with literary texts on a deeper level and analyse their themes, characters and contexts. In this subject, you will learn a range of strategies that will allow you to transform your existing writing skills and add a new level of sophistication to your writing.

What will I Learn?

- »» Text Analysis
- »» Creative writing skills
- »» Publishing
- »» How to embed textual evidence in written responses
- »» Skills for in-depth discussions of complex issues

What types of things will I do?

- »» Creating and responding to fiction texts
- »» Written and verbal text responses
- »» Mini performances
- »» Group discussions
- »» Editing and proofreading

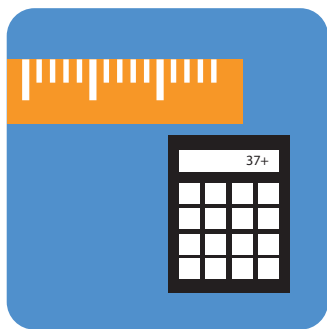
Where can this lead me?

Career Outcomes

- »» Journalism
- »» Media studies
- »» Professional writing and editing
- »» Education
- »» Liberal Arts

Course Pathways

- VCE Unit 1-4: English
- VCE Unit 1-4: Literature



YEAR 10
MATHEMATICS

Introduction to Maths Methods

- SINGLE SEMESTER ELECTIVE -

The Mathematics Advanced Skills course is recommended for students who want to extend their knowledge of mathematics beyond the normal school curriculum. Advanced Skills explores more complex skills in mathematics, such as advanced algebra and graphing. Please remember this course is beyond the scope of standard Year 10 mathematics teaching; therefore, there will be an increase in the workload, and conceptual complexity. Nonetheless, it is an excellent course for students considering a higher-level mathematics course in VCE, such as VCE Mathematical Methods, and VCE General Specialist Mathematics. Students with aspirations for Methods/Specialist are strongly recommended to complete this course. There will be a test to confirm entry to this elective.

What will I Learn?

- »» Advanced algebra and graphing
- »» Conceptualizing practical problems
- »» Applied problem solving
- »» Technology (CAS)

What types of things will I do?

- »» Application of functions
- »» Practical applications of concepts
- »» Digital Learning
- »» Analysis of mathematical problems

Where can this lead me?

Career outcomes

- »» Nursing
- »» Teaching
- »» Physiotherapy
- »» Engineering
- »» Medicine
- »» Health

Course Pathways

- »» Direct Pathway to VCE Mathematical Methods and Specialist Mathematics



YEAR 10 SCIENCE General Science Enrichment Program - SINGLE SEMESTER ELECTIVE -

This subject is designed to springboard you into all VCE Science subjects. It focuses on developing the written and experimental skills required to succeed in VCE Science.

Each term of the semester-long subject will focus on two major projects completed in VCE Science; a Research Report and an Experimental Design Report. Students will focus on an area of science that interests them most, whether it be density of black holes, power of mitochondria, stem cell therapy, synthesis of biodiesel, industrial microbiology, bio-nanotechnology, or production and observation of gravity waves. Students will perform a range of scientific experiments and focus on the analysis of data and how best to discuss and represent their results.

What will I Learn?

- »» The structure of VCE Science courses and how best to succeed
- »» Mathematical and analytical skills used in VCE science experiments and activities
- »» Written and communication skills used in scientific reports and assessment
- »» Broad range of science-based investigative and analytical skills applicable to a wide field of study

What types of things will I do?

- »» Complete a variety of scientific experiments from a range of disciplines
- »» Complete a research-based report in an area of your choosing
- »» Complete reports and discussions similar to those in VCE science
- »» Build a range of skills to prepare for VCE science
- »» Design, complete and report on an experiment in an area of your choosing

Where can this lead me?

Career Outcomes

- »» Data scientist
- »» Medical or scientific research
- »» Medicine or health sciences
- »» Veterinary and animal science
- »» Education

- »» Building and design
- »» Aeronautics
- »» Pharmacy
- »» Engineering
- »» Architecture

Course Pathways

- VCE Unit 1-4:
- Biology
 - Physics
 - Chemistry
 - Psychology



YEAR 10 SCIENCE Psychology

- SINGLE SEMESTER ELECTIVE -

It is said that “a man can alter his life by altering his thinking” (William James). Psychology takes students deep inside the mysteries of the human mind to discover how mental processes shape every one of us. Students examine exciting areas of study such as: human neuropsychology examining the Brain, mental health in the community and ideas about normality and abnormality through a study of criminal behaviour. Students also learn relevant research methodologies and conduct real life studies to explore the age old question: What makes humans tick?

What will I Learn?

»» Students will learn about the study of psychology

- What it takes to become a psychologist
- The different specialist areas of psychology
- Designing, evaluating and conducting research including formulating hypotheses, adhering to ethical principles and determining variables

»» Students will learn about mental illness and mental health

- Psychotic and non-psychotic disorders
- Contributing factors, diagnoses, symptoms and treatments
- Historical and modern approaches

»» Students will learn about the brain and nervous system

- The different areas of the brain
- Brain damage and plasticity
- Peripheral nervous system function
- The anatomy of neurons and the communication that occurs between them

»» Students will learn about forensic psychology

- Psychology and the legal system
- Criminal profiling and crime scene analysis
- Organised and disorganised criminals

What types of things will I do?

»» Students will be able to analyse the psychology experiments of the past and eventually design and conduct their own. Students will construct brain models and analyse case studies to investigate the functions of the different cortical lobes. They will explore the varied career options available in the field of psychology, in particular forensic psychology. During this unit, students will have the opportunity to study the practice of criminal profiling by researching criminal cases of the past. Students will gain an awareness of mental health statistics, contributing factors, symptoms and treatments available in Australia, and will create case studies outlining the development, progression and resolution of mental illnesses such as depression, anxiety, eating disorders, bipolar disorder and schizophrenia

Where can this lead me?

Career Outcomes

- »» Psychiatrist
- »» Counsellor
- »» Teacher
- »» Medicine
- »» Psychologist
(clinical, sport, neuroscientist, forensic, educational, academic, social)
- »» Social worker
- »» Research assistant
- »» Nurse
- »» Criminologist

Course Pathways

VCE Unit 1-4: Psychology



YEAR 10 HUMANITIES Financial Literacy

- SINGLE SEMESTER ELECTIVE -

Are you a budding entrepreneur? Want to avoid some common financial traps which get people into trouble and apply strategies which build wealth? Curious about what superannuation, tax and loans are all about as you prepare for your first job? Students will learn about basic financial literacy and their rights and responsibilities as consumers. They will learn about risks associated with different investments and ways to stay out of financial trouble.

What will I Learn?

- »» Understanding basic financial literacy
- »» Managing income in a successful way
- »» Different types of credit and what to do if you are having trouble paying your bills/ loans
- »» The advantages and disadvantages of different types of investments to make you money grow.
- »» Planning and managing your own business
- »» How to avoid common financial traps and scams when you start earning an income
- »» Budgeting

What types of things will I do?

- »» Participate in the \$20 Boss Challenge in which you will be given a hypothetical \$20 start-up capital to create your own business
- »» Co-create the 'Finance Channel' with class members
- »» Participate in the ASX stock market game
- »» Prepare a budget
- »» Act as a financial counsellor to provide to avoid financial hardship
- »» Learn what bills adults pay

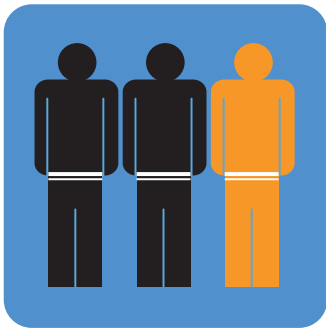
Where can this lead me?

Career Outcomes

- »» Entrepreneur
- »» Manager
- »» Financial manager
- »» Financial Counsellor
- »» Administrations
- »» Stock Broker
- »» Accountant
- »» Financial Planner

Course Pathways

VCE Unit 1-4: Business Management



YEAR 10 HUMANITIES

- Future Societies -

- GEOGRAPHY AND HISTORY EXTENSION SINGLE SEMESTER ELECTIVE -

Research shows that young people are concerned about climate change and the human footprint on the environment. In the first area of study, students will understand and propose solutions to some of the biggest environmental problems facing future generations including deforestation, pollution and ecosystems in crisis. Is the dystopian future of environmental crisis presented by media outlets an inevitable reality? The second area of study will examine how past societies have dealt with big challenges and crises and what we can learn from these efforts today. This unit merges the studies of History and Geography, addressing the big idea of how societies deal with change.

What will I Learn?

»» Climate change: what's causing it and how will it impact life on our planet?

»» What are some challenges and solutions to sustainability?

»» How have past societies dealt with big crises such as the environmental crisis facing us today?

»» What can we learn from the way in which past societies managed change.

What types of things will I do?

»» Evaluate and represent geographical data visually

»» Work collaboratively on a geographical inquiry project

»» Complete hands on geography experiments

»» Explore change and continuity in history to examine how past societies have dealt with environmental change

Where can this lead me?

Career Outcomes

»» Education

»» Law

»» Social work

»» History

»» Accounting

»» Business

»» Geography

»» Journalism

Course Pathways

VCE Unit 1-4:

Legal Studies

History

Business Management

Global Politics



YEAR 10 HUMANITIES Legal Studies

- SINGLE SEMESTER ELECTIVE -

Aspiring to be a lawyer or to work within our justice system as a police officer or a social worker? Then Humanities Legal Maze is for you! You will learn all about the Australian criminal and civil legal systems and cover topics such as: how do the courts work, what responsibilities are there when you sign a contract, what processes happen when someone commits a crime, when can people sue one another and what are your rights with the police. You will also explore different legal systems around the world and be prepared with key vocabulary and knowledge for VCE Legal Studies!

What will I Learn?

- »» Learn about the criminal system – how do courts operate and what kind of crimes does society face
- »» Use evidence from real cases to answer legal questions
- »» Learn about the civil system – learn about scams, torts and contract law
- »» Describe components of criminal and civil law and get a handle of key vocabulary for Years 11 and 12
- »» Learn about international law – who controls what countries can and cannot do
- »» Understand your rights and responsibilities under the Australian legal system to prepare you for when you are 18 and for now

What types of things will I do?

- »» Police/lawyer visit where you get to speak to a real life expert
- »» Law courts of Melbourne (see real trial) and the Old Melbourne Gaol excursion
- »» Act as a lawyer and write your own defence to a case study!

Where can this lead me?

Career Outcomes

- »» Government service
- »» Paralegal
- »» Education
- »» Solicitor
- »» Politics
- »» Media
- »» Law
- »» Corrective services
- »» Judge
- »» Community worker
- »» Barrister

Course Pathways

- VCE Unit 1-4:
- Legal Studies
 - Business Management
 - History
 - Global Politics



YEAR 10 HEALTH & PHYSICAL EDUCATION Biomechanics & Exercise Nutrition - SINGLE SEMESTER ELECTIVE -

In this unit students will examine a variety of topics related to the human body from both physical and health related aspects. These include coaching, injury prevention and classifications and nutrition. There is also a practical component in which students will engage in activities that extend on sports covered in years 7-9. This subject is an appropriate introduction to some of the units studied in both VCE Physical Education and VCE Health and Human Development.

What will I Learn?

- »» Styles of coaching
- »» Macro and micro nutrients
- »» How to write a coaching session
- »» Food sources of nutrients
- »» Factors that influence health
- »» Eating for health
- »» Musculoskeletal injuries
- »» Treatment and prevention of injuries and illnesses

What types of things will I do?

- »» Peer coaching
- »» Class debates
- »» Practical lessons
- »» Work in groups to present health information
- »» Research programs that offer health services to young people

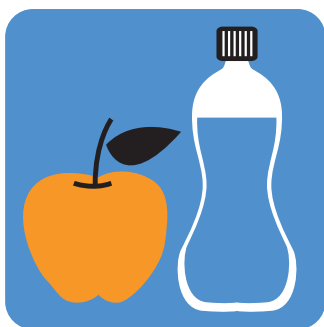
Where can this lead me?

Career Outcomes

- »» Coaching
- »» Personal Training
- »» Dietitian
- »» Sports Management
- »» Sports Psychology
- »» Education

Course Pathways

- VCE Unit 1-4:
- VET Sport and Recreation
 - Physical Education
 - Health & Human Development



YEAR 10 HEALTH & PHYSICAL EDUCATION

Foundations of Health and Human Development

- SINGLE SEMESTER ELECTIVE -

In this unit students will study the various influences on health and human development, across the life-span. Topics that are covered include the dimensions and factors of health, human development, health measures and strategies, and the major health issues that affect Australians. This is an appropriate introduction to VCE Health and Human Development. Please note there is no practical component to this elective.

What will I Learn?

- | | | |
|---|---|---------------------|
| »» Dimensions of health and health status | »» Infancy | The human life-span |
| »» Factors affecting health | »» Youth | |
| »» Area of individual human development | »» Adulthood | |
| »» Health issues effecting Australians | »» Australian healthcare system | |
| »» Nutrition | »» Aboriginal and Torres Straight Islander health and wellbeing | |

What types of things will I do?

- | | |
|---|---|
| »» Class debates | »» Designing healthy meals |
| »» Analyse data about Australia's health | »» Analyse case studies based on real life scenarios |
| »» Research and analyse health inequalities | »» Discuss rights and responsibilities to access healthcare |

Where can this lead me?

Career Outcomes

- | | |
|--------------------|----------------|
| »» Nutritionist | »» Child care |
| »» Education | »» Youth Work |
| »» Nursing | »» Social Work |
| »» Paediatric care | »» Medicine |
| »» Aged care | »» Health |

Course Pathways

VCE Unit 1-4: Health and Human Development



YEAR 10
HEALTH & PHYSICAL EDUCATION

Foundations of Physical Education

- SINGLE SEMESTER ELECTIVE -

In this unit students will gain a thorough understanding of the body and how it can be trained to improve sporting performance. Students will study the effects that different exercises have on the body and how to design a program that is tailored to particular sports. There is also a practical component in which students will engage in activities that practice and reinforce the knowledge gained in the theory lessons. This unit directly assists in gaining fundamental knowledge and understanding in Units 1 and 2 Physical Education.

What will I Learn?

- »» Fitness components
- »» Training methods
- »» Training principles
- »» Cardiovascular system
- »» Skeletal system
- »» Muscular system
- »» Develop a training program
- »» Respiratory system

What types of things will I do?

- »» Practical lessons
- »» Group fitness
- »» Attend local gym classes
- »» Use of ICT

Where can this lead me?

Career Outcomes

- »» Personal Training
- »» Gym Instructor
- »» Coaching
- »» Education
- »» Sports Science
- »» Physiotherapist
- »» Massage Therapist
- »» Professional Athlete
- »» Sport Psychologist

Course Pathways

- VCE Unit 1-4:
- VET Sport and Recreation
- Physical Education



YEAR 10 Food Studies

- SINGLE SEMESTER ELECTIVE -

****Please note that there will be additional charges for this subject.
Please refer to specific practical subject charges provided as additional information to this booklet.**

In this unit students will investigate ways foods change at a molecular level to create the dishes we like to eat. They will use the design process to create sustainable dishes based on a range of different cooking techniques while maintaining ethical standards. Students will investigate ways in which the food industry produces food and the food wastage that abounds in our everyday consumer lifestyles.

What will I Learn?

- »» Food science
- »» Sustainability in the food industry
- »» How and why food changes when cooked
- »» How food affects your health
- »» To design food using a science based approach

What types of things will I do?

- »» Prepare food products in a safe and hygienic manner
- »» Look at ethics in food production
- »» Cook a wide variety of food products
- »» Investigate ways to reduce food waste
- »» Undertake design briefs to plan and prepare food products

Where can this lead me?

Career Outcomes

- »» Chef
- »» Nutritionist
- »» Health
- »» Hospitality
- »» Education

Course Pathways

- VCE Unit 1-4: Food Studies
- VET Hospitality



YEAR 10 THE ARTS 2D Art

- SINGLE SEMESTER ELECTIVE -

Students will have the opportunity to explore the visual arts practices and styles of Australian and International artists as inspiration to develop a personal style, explore and express ideas, concepts and themes in art works.

The students will explore how artists manipulate materials, techniques, technologies and processes to develop and express their intentions in art works and use these techniques to develop their own artworks.

Students analyse and evaluate artworks and exhibitions from different cultures, times and places, and discuss how ideas and beliefs are interpreted by audiences.

What will I Learn?

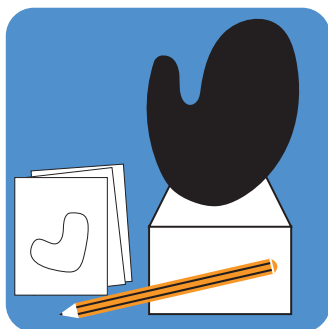
- »» Materials and techniques
- »» Australian and International Artists
- »» Rendering techniques
- »» Printmaking, painting and drawing
- »» Observational drawing

What types of things will I do?

- »» Use a variety of materials and techniques
- »» Multi-colour lino printing
- »» Study Australian and International Artists
- »» Observational drawing

Where can this lead me?

Career Outcomes		Course Pathways	
»» Artist/ Printmaker	»» Designer	VCE Unit 1-4:	Studio Art
»» Illustration	»» Architecture		Media
»» Industrial Design	»» Photography		Visual Communication Design
»» Game Design	»» Fashion Design		
»» Advertising	»» Education		
»» Animation			



YEAR 10 THE ARTS 3D Art

- SINGLE SEMESTER ELECTIVE -

Students will have the opportunity to explore the visual arts practices and styles of Australian and International artists as inspiration to develop a personal style, explore and express ideas, concepts and themes in art works.

The students will explore how artists manipulate materials, techniques, technologies and processes to develop and express their intentions in art works and use these techniques to develop their own artworks.

Students analyse and evaluate artworks and exhibitions from different cultures, times and places, and discuss how ideas and beliefs are interpreted by audiences.

What will I Learn?

»» Ceramics and Sculpture

»» Australian and International Artists

»» 3D construction techniques

What types of things will I do?

»» Use a variety of materials and techniques

»» 3D construction techniques

»» Study Australian and International Artists

»» Clay hand building techniques

»» Sculpture

Where can this lead me?

Career Outcomes

»» Artist/ Printmaker

»» Illustration

»» Industrial Design

»» Game Design

»» Advertising

»» Animation

»» Designer

»» Architecture

»» Photography

»» Fashion Design

»» Education

Course Pathways

VCE Unit 1-4:

Studio Art

Media

Visual Communication Design



YEAR 10
THE ARTS

Visual Communication Design

- SINGLE SEMESTER ELECTIVE -

In this unit students will have the opportunity to learn about communication design. Students will use the design process to research, generate ideas, develop and refine concepts for a stated purpose. Students will apply typography and images to various graphic designs such as magazine covers, music posters, packaging designs and logo design. The students will learn various printmaking and drawing techniques and then use the computer to manipulate ideas for final concepts.

What will I Learn?

- »» Learn about Typography
- »» Research
- »» Learn various drawing techniques
- »» Draw from Observation
- »» Learn the Elements and Principles of Design
- »» To use the design process to complete designs
- »» How to use Methods, Media and Materials during development and refinement
- »» How to create designs for different Communication Design Fields

What types of things will I do?

- »» Use the anatomy of type to target an audience
- »» Create your own folio of work
- »» Create original designs for a range of purposes

Where can this lead me?

Career Outcomes

- »» Illustration
- »» Packaging Design
- »» Logo Design
- »» Architecture
- »» Fashion Design
- »» Animation
- »» Graphic Design

- »» Industrial Design
- »» Game Design
- »» Web Design
- »» App Design
- »» Education
- »» Interior Design

Course Pathways

- VCE Unit 1-4: Visual Communication Design
- Studio Art
- Media



YEAR 10
THE ARTS

Darkroom Photography

- SINGLE SEMESTER ELECTIVE -

****Please note that there will be additional charges for this subject.
Please refer to specific practical subject charges provided as additional information to this booklet.**

In the Darkroom Photography course students learn analogue Camera Skills, as well as Darkroom processing techniques using black and white film. They have the unique opportunity to be in full control of their photographic process from start to finish, giving them a better understanding of photography and its range of applications in a contemporary practice.

Students build on their awareness of how and why artists, craftspeople and designers realise their ideas through different visual arts practices. They refine their personal aesthetic through working and responding perceptively as an artist, craftsperson or audience. They identify and explain how artists and audiences interpret artworks through explorations of different viewpoints.

As they make and respond to visual artworks, students use conceptual explanations to critically reflect on the contribution of visual arts practitioners. They adapt ideas, visual images and practices from selected artists and use them to inform their own personal aesthetic when making artworks and presenting them to an audience.

As they experience visual arts, students draw on artworks from a range of cultures, times and locations. They reflect on the development of different traditional and contemporary styles of art works.

Students extend their understanding of safe photographic practices and choose to use sustainable materials, techniques and technologies.

What will I Learn?

- »» Learn the Elements & Principles of Design
- »» Learn the Design Process
- »» How to draw from observation
- »» Research
- »» How to use a apply a range of drawing techniques
- »» How to create original designs for a range of purposes
- »» How to create a folio of work

What types of things will I do?

- »» Typography
- »» Film & Photography skills
- »» Observational drawing
- »» Create original designs for a range of purposes
- »» Editing
- »» Analysis skills
- »» Perspective drawing

Where can this lead me?

Career Outcomes

- »» Videographer
- »» Journalism
- »» Education
- »» Advertising
- »» Fashion Designer
- »» Photographer
- »» Artist
- »» Designer
- »» Interior Designer
- »» Game Designer

Course Pathways

- »» Web Designer
- VCE Unit 1-4:
- Visual Communication Design
- Studio Art
- Media



YEAR 10 THE ARTS Music

- SINGLE SEMESTER ELECTIVE -

In this course students will have the opportunity to experience playing as a member of an ensemble, learn basic improvisation skills and study the background of a musical genre and style. Students will integrate theory with music practice, that is chord construction and progression rhythms.

What will I Learn?

- »» How to tune a guitar
- »» Variety of chord progressions
- »» Playing as part of an ensemble
- »» Simple melodies and four chord progressions
- »» 12 bar blues progression
- »» Elementary guitar chords
- »» How to recognise chords and chord families

What types of things will I do?

- »» Constructing chords minor / major / diminished
- »» Performing in front of an audience
- »» Study of one style / genre
- as a powerpoint presentation covering background / innovations etc
- »» Keyboard / guitar / drums / bass
- »» Creation of an independent musical piece

Where can this lead me?

Career Outcomes

- »» Public performance
- »» Teaching
- »» Music composer
- »» Theatre technician
- »» Sound engineer and events manager

Course Pathways

Further tertiary studies ie courses at RMIT / TAFE Music



YEAR 10 THE ARTS Drama

- SINGLE SEMESTER ELECTIVE -

In this course students will experience the opportunity to develop in dramatic theory and practice, and use skills to shape their own ensemble and solo performance projects. Students develop a stronger understanding in non-naturalistic theatre. Students use dramatic language to design, analyse, create performances and further develop characterisation.

What will I Learn?

Drama Practice:

- »» Acting workshops
- »» Theatre sports
- »» Watching theatre for inspiration
- »» Script analysing/writing

Acting and stagecraft in Performance:

- »» Evaluation of stagecraft in performance
- »» Transformation of objects

Form and style:

- »» Dramatic elements
- »» Theatrical conventions
- »» Play scripts

Play-building:

- »» Performance
- »» Improvisation

What types of things will I do?

»» Method acting

»» Improvisation

»» Dialogue

»» Ensemble piece

»» Script writing

»» Evaluate stagecraft

»» Performance styles

»» Monologue

»» Theatrical brief

»» Solo piece

»» Performing in front of an audience

Where can this lead me?

Career Outcomes

»» Entrepreneur

»» Humanitarian

»» Educator

»» Actor

»» Designer - set/dress/
makeup

»» Critical thinker

»» Entertainer

»» Teaching

»» Hospitality

»» Writer

Course Pathways

VCE Unit 1-4:

English

EAL

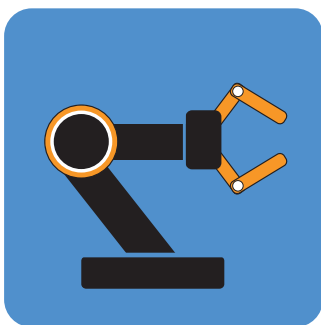
Literature

Visual Communication
Design

VET Make up

VET Hairdressing

Media



YEAR 10 ICT Robots

- SINGLE SEMESTER ELECTIVE -

Students will have the opportunity to analyze, design, create and evaluate many aspects of Robots in our modern society. They will be empowered to use their creativity through science, engineering, technology and mathematics to ensure they are able to design, build and program a series of robots. Students will be able to make a robot that moves, pick up objects, hear, see and touch. They will be challenged to explore and solve real life problems that affect our society using the STEM design methodology.

What will I Learn?

- »» What a robot is and their benefits to society
- »» How to design and build a robot
- »» How through science, engineering, technology and mathematics can be combined to solve problems.
- »» How to use your robot to analysis, design, create and evaluate robot based real life challenges
- »» Introduction to Robotic Programming Languages
- »» Present your findings to a local, national and international audience.

What types of things will I do?

- »» Design and make a robot
- »» Explore and solve real life issues relating to our society using The STEM Design methodology

Where can this lead me?

Career Outcomes

- »» ICT Careers
- »» Game designer
- »» Computer programmer
- »» Engineering
- »» Electro-technology

Course Pathways

VCE Unit 1-4: Computing & Informatics



YEAR 10
ICT

Application Development

- SINGLE SEMESTER ELECTIVE -

Students will have the opportunity to analyze, design, create and evaluate their own applications. They will be empowered to use their creativity through science, engineering, technology and mathematics to ensure they are able to design, build rigorous industry quality applications on a series of platforms. They will be challenged to explore and solve real life problems that affect our society using the STEM design methodology.

What will I Learn?

- »» What is an application? What makes a good application?
- »» How to design and build an application.
- »» How science, engineering, technology and mathematics can be combined to solve problems.
- »» Introduction to Application Development.
- »» How to analyse, design, create and evaluate an application that will address real life challenges.
- »» Present your findings to a local, national and international audience.

What types of things will I do?

- »» Design and make an application
- »» Explore and solve real life issues relating to our society using The STEM Design methodology

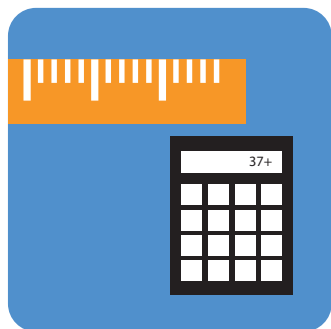
Where can this lead me?

Career Outcomes

- »» ICT Careers
- »» Game designer
- »» Computer programmer
- »» Engineering
- »» Electro-technology

Course Pathways

VCE Unit 1-4: Computing & Informatics



YEAR 10 Fundamental Maths

- SINGLE SEMESTER ELECTIVE -

The Year 10 Fundamental Maths provides support to students who would like to consolidate their core mathematics skills and develop independence in their fundamental mathematics knowledge. Fundamental maths supports students in the gaps in their knowledge, helping to boost students' confidence in their own skills. This course will provide students with the skills necessary to pursue VCE Foundation Mathematics, and VCE General Mathematics in Year 11.

At the Grange we hope to strengthen and review core mathematics skills to ensure our students have a strong key knowledge base, and the confidence to progress to VCE Mathematics courses.

What will I Learn?

The mathematical tasks are designed to develop the following skills :

- »» Consolidation of core mathematical skills
- »» Cooperative and communication skills through group work
- »» A positive attitude towards mathematics

What types of things will I do?

- | | |
|---------------|-------------------------------|
| »» Reading | »» Core mathematical concepts |
| »» Writing | »» Calculating |
| »» Discussing | »» Consolidating |
| »» Thinking | »» Enjoying Mathematics |

Where can this lead me?

Course Pathways

This pathway provides support to students who are interested in continuing their study of Mathematics in VCE, leading into Foundation Mathematics, and VCE General Mathematics in Year 11.



YEAR 10 THE ARTS Media Studies

- SINGLE SEMESTER ELECTIVE -

Have you ever wondered about the media's influence and effect? Have you ever wanted to create your own movie, photography exhibit, podcast or YouTube channel? Then this media studies unit allows you to explore your creative side as you learn multiple production skills for the 21st Century.

What will I Learn?

Students experiment with different media such as photography, film, video, radio and print (newspapers and magazines). They learn about the skills and process formats of chosen media forms. Students view film texts from the past and present and develop critical approaches to analyse, interpret and evaluate film and video in a range of forms and genres; for example, science fiction and horror. Students take a historical view of the technical development of film from silent film to contemporary works. Students view, critically analyse, and compare films from a variety of cultures such as New Zealand and Australia, as well as those from America and Europe, but give emphasis to the development of Australian film.

What types of things will I do?

- »» Challenge media theories and devise your own conclusions about the media's influence
- »» Plan storyboards and create short works using computer-generated images and video
- »» Learn the basics of Adobe Photoshop, Premier and Illustrator

- »» Create narratives through film, photos and audio
- »» Use DSLR, tripods, lighting setups, microphones, greenscreens and sound studios
- »» Analyse movies, TV shows, photographs and podcasts

Where can this lead me?

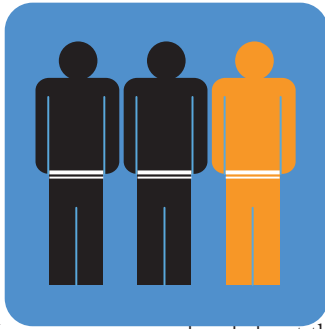
Career Outcomes

- »» Director
- »» Producer
- »» YouTuber
- »» Podcaster
- »» Videographer
- »» Photographer
- »» Journalist
- »» Animator
- »» Camera operator
- »» Film/TV show editor
- »» Script Writer
- »» Show runner
- »» Educator

Course Pathways

VCE Unit 1-4:

- Media Studies
- Journalism
- Illustration & Design
- Photography
- Art
- Visual Communication



YEAR 10 HUMANITIES

- History Extension-

SINGLE SEMESTER ELECTIVE -

Have you ever wondered about the great unsolved mysteries that have happened throughout human history? Have you ever wanted to do your own research and come up with your informed opinion about some of the great questions facing historians of the 20th Century? In Area of Study 1, find out why one man - Hiroo Onoda - kept fighting a war that had finished more than 20 years earlier. In Area Study 2, delve into Freedoms and Rights movements of the 20th Century. Using the American Civil Rights movement as a historical backdrop, students examine the murder of three civil rights activists known as the Freedom Summer Murders of 1964.

What will I Learn?

- »» American Civil Rights movement.
- »» How life changed in 1960s America and Australia.
- »» Changing social, cultural, historical, political and technological conditions on a major global influence in the 1960s.

What types of things will I do?

- »» Challenge theories of experts to devise your own conclusions about two famous mysteries of the 20th Century
- »» Create a podcast to communicate historical understanding
- »» Interview a relative, teacher or family friend about their experiences of the past
- »» Learn how to generate research questions about topics I am interested in and how to test hypotheses using printed and online research sources
- »» Analyse different perspectives of people in the past and explore significance and contestability
- »» Create detective files which aim to use primary and secondary sources to answer two history mysteries

Where can this lead me?

Career Outcomes

- »» Researcher
- »» Historian
- »» Journalist
- »» Teacher
- »» Museum Worker
- »» Curator
- »» Foreign Correspondent
- »» Librarian

Course Pathways

- VCE Unit 1-4:
- Legal Studies
 - History
 - Geography