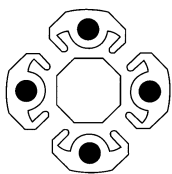


YEAR 9

**CORE EXTENSION
HANDBOOK**

2010



Portland Secondary College
“Creating the Opportunities”

MISSION STATEMENT

**To develop each student
socially, physically and academically,
in a safe, caring, yet challenging environment.**

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Administration

PRINCIPAL	Mrs. Toni Burgoyne
ASSISTANT PRINCIPAL	Ms. Jo Kindred
ASSISTANT PRINCIPAL	Mr. Glenn Kane
YEAR 9 MANAGER	Mr. Colin Payne
YEAR 10 MANAGER	Mr. David Callaghan

All of the people listed above are directly related to the operation of the Middle School and are all available for you to contact to discuss any aspect of your child's future studies.

Key Learning Area Managers

These people have responsibility for the delivery of the curriculum in key learning areas of the school.

ARTS	Mrs. Catherine Francis
ENGLISH	Mr. Ben Langdon
HEALTH & PHYSICAL EDUCATION	Mr. Greg Ward
LOTE	Ms. Liz Formby
MATHS	Mr. Dale England
SCIENCE	Mrs. Cheryl Edwards
STUDIES OF SOCIETY & ENVIRONMENT	Mr. Noel Trinnick
TECHNOLOGY	Mr. Jon Taylor

Year 9 & 10 Curriculum

The following aspects of the curriculum policy are taken into account when developing courses:

- excellence in teaching and learning
- preparation for change and diversity
- learning experiences that are inclusive of all students and which offer opportunity for individual success
- acknowledgment that people learn in a variety of ways and at different rates.

The breadth of curriculum at Portland Secondary College enables students to choose subjects appropriate to further education and career options.

In 2010, all students in Years 9 and 10 at Portland Secondary College will study a coherent program which combines compulsory and extension units across all Key Learning Areas.

Students will study compulsory units in English, Mathematics, Science, Personal Development, The Arts, Studies of Society & Environment, Technology, and Sport and be able to choose a Language Other Than English as an extension.

We believe that allowing students significant choice will have a beneficial influence in improving student motivation towards their studies. At the same time care has been taken to ensure the Core units students are required to study keep all options open to VCE level.

This handbook outlines the compulsory program for 2010 and all the extension units offered in each Key Learning Area.

Students and parents should read this book carefully; keeping in mind that students should choose extensions which offer further study in areas of interest or talent. Choosing subjects which are relevant to a possible future career is also advised.

You will see that there is a large range of choices available in the extension program and the Careers Teacher and College staff are available for assistance in deciding your program for 2010. Please make an appointment to discuss any concerns you may have.

YEAR 9-10 CURRICULUM (2010)

Semester 1	ppc*	Semester 2	ppc*
Year 9			
English	8	English	8
Mathematics	8	Mathematics	8
Adventure Bound OR Rec & Leisure	6	Adventure Bound OR Rec & Leisure	6
Science OR Commerce	7	Commerce OR Science	7
SOSE	5	SOSE	5
Tech Food OR (Tech Studies + Graphic Communication)	6	(Tech Studies + Graphic Communication) OR Tech Food	6
Extension A	6	Extension D	6
Extension B	6	Extension E	6
Extension C	6	Extension F	6
Pastoral Care	2	Pastoral Care	2
Year 10			
English	9	English	9
Mathematics	9	Mathematics	9
Commerce OR Health	9	Health OR Commerce	9
Science OR SOSE	8	SOSE OR Science	8
(Tech Food + Graphic Communication) OR Art	7	Art OR (Tech Food + Graphic Communication)	7
Extension A	7	Extension C	7
Extension B	9	Extension D	9
Pastoral Care	2	Pastoral Care	2

* = periods per 10 day cycle

2010 Senior School Information

ENGLISH

Foundation English
English
Literature

SCIENCE

Biology
Chemistry
Physics
Psychology

THE ARTS

Art
Visual Communication & Design
Music Performance
Studio Arts
Drama

LOTE

French
Indonesian
Indigenous Languages
Also Correspondence via Distance Ed.

- Spanish
- Indonesian
- French
- German
- Italian
- Greek

HEALTH & PHYSICAL EDUCATION

Health & Human Development
Physical Education

MATHEMATICS

Foundation Mathematics
General Mathematics
Further Mathematics
Mathematical Methods
Specialist Mathematics

TECHNOLOGY

Systems & Technology
Design & Technology

- Metals
- Wood
- Textiles

Food Technology
Information Technology 1&2
IT Applications 3&4

STUDIES OF SOCIETY & ENVIRONMENT

Accounting
Business Management
Geography
Legal Studies
Economics
History

VOCATIONAL EDUCATION & TRAINING

Automotive Technology
Beauty
Building & Construction
Business Administration
CISCO Networking Academy Program
Community Services (Childcare)
Conservation & Land Management
Engineering Studies
Equine Industry
Hairdressing
Hospitality (Operations)
Multimedia
Retail Operations

2010 Middle School Extensions

Program Area	Year 9	Year 10
ENGLISH	The Art of Writing English Plus Journalism Literature	Art of Writing English Plus Literature Specialist English
LOTE	Indonesian (Feasts, Family & Fun) LOTE via Distance Education Latin	Auslan (Australian Sign Language) French (Revolution & Self-Defence) Indonesian (Teen scene & beyond) LOTE via Distance Education
MATHS	Mathematics A Mathematics B Mathematics C	Mathematical Methods Mathematics, Applied Mathematics, General
SCIENCE	Biology Chemistry Marine Science Physics Psychology	Biology Chemistry Marine Science Physics Psychology
SOSE	Australian History (1788-1901) Geography I – Human Rights – Child Labour Geography II – Changing Landscapes History – Revolution & Reform Law for Living I	Asian Studies International Studies Law for Living II VCE Sociology
THE ARTS	Drama Graphic Arts Music Photography Three-Dimensional Studies Two- dimensional Studies	Animation Studies Drama Graphic Arts Music Photography Three- dimensional Studies Two-Dimensional Studies
TECHNOLOGY STUDIES	Creative Plastics Creative Wood Skills Composite Constructions Computer Publishing Systems & Technology Technology – Fibre & Fashions I Working with Metals	Creative Wood Skills Computer Programming Engineering Technology Materials in Miniature Mechanics and Design Systems & Control Technology – Fibre & Fashions II Working with Metals
HEALTH & PHYSICAL EDUCATION	Dance (Human Movement) Physical Education	Child Studies Dance (Human Movement) Physical Education Fun & Fitness

09AWR - The Art of Writing

LEARNING AREA: English

CONTACT TIME: One semester

AIM:

To provide those students with a specific interest in creative writing with an opportunity to specialise in this area and extend their skills beyond the scope of the general English curriculum.

CONTENT:

Short units of work focussing on character, dialogue, setting, point of view, plot, imagery, structure and which will involve brief examinations of innovative fiction, novels, short stories, poems and plays. The emphasis of the course will be on completing and publishing pieces of writing suitable for a wider market (national and state competitions, national and state magazines and newspapers) to which students will be given access.

TYPICAL WORK REQUIREMENTS:

A sequence of short exercises which will prepare the student for each unit of work and the development of extended responses such as:

- 1000 - 3000 word short story
- The beginning of a novel
- Anthology of poems
- Radio play

The course aims to remain flexible enough to identify and respond to individual needs.

09AUH - Australian History

LEARNING AREA: Studies of Society & Environment

CONTACT TIME: One semester

AIM:

To give students a basic understanding of events leading up to the discovery of Australia by Europeans. Students will also focus on gaining a better understanding of Aboriginal – European relations in Australian history. To gain an understanding of change, continuity, causation and evidence in Australian history.

CONTENT:

1. Who discovered Australia?
2. Early Aboriginal settlement and culture
3. Explorations and visitations of the Indonesians, Chinese, Portuguese and English
4. What impact did European sailors and settlers make on Aboriginal Australia?
5. The perils of settlement
6. First contact between Aborigines and the British occupiers
7. Focus on the “Black Wars”
8. The expansion of European settlement and the impact this had on Aboriginal populations.

SUGGESTED LEARNING ACTIVITIES:

- Analysis of primary resources
- Set work
- Group work
- Discussion and debate
- Research

09BIO - Biology

LEARNING AREA: Science

CONTACT TIME: One semester

AIM:

To study Biology in a variety of ways and in depth.

CONTENT:

- Research a minibeast in depth
- Human body senses
- Human disease
- Excretion
- The human body
- Anaerobic and aerobic respiration

WORK REQUIREMENTS:

May include:

- Research
- Practical work in the laboratory (this might include designing investigations and setting assessment criteria)
- Classroom participation
- Group work

09CHE - Chemistry

LEARNING AREA: Science

CONTACT TIME: One semester

AIM:

This unit is designed to invite students to develop a real interest in the area of science encompassing Chemistry.

CONTENT:

We move into chemistry with the view to discover and explore!

We will use 'everyday phenomena' to develop chemical language and laboratory skills.

Within these 'everyday' settings we will be able to investigate some quite difficult and challenging concepts, such as those found in the areas of:

- Water
- Appalling Acids
- Food Chemistry
- Cosmetics

WORK REQUIREMENTS:

Bookwork, worksheets, practical skills and write-ups, projects and tests will form the assessment tasks for this unit.

09CEC - Composite Constructions

LEARNING AREA: Technology

CONTACT TIME: One semester

AIM:

To give students an opportunity to use a mix of materials when designing and producing projects.

For students to become acquainted with contemporary production methods, where products are not comprised of only one type of material. This allows for greater freedom of design and encourages innovation.

CONTENT:

- Students will work with a variety of materials and tools
- The fundamentals of the use of design elements will be covered
- Design portfolios will be developed.
- One or two finished products or prototypes will be completed by each student.
- Evaluations of the completed projects and the production methods will be made.

WORK REQUIREMENTS:

- Skills exercises
- Production trials
- Design exercises
- One or more finished projects
- A design portfolio for each project that charts the design and productions processes.

09CPU - Computer Publishing

LEARNING AREA: Technology

CONTACT TIME: One semester

CONTENT:

Students will undertake graded tasks in a range of printing and publishing in both paper and electronic formats, with a focus on small documents. Software used will include:

- Microsoft Word
- Microsoft Publisher
- Microsoft Front Page or other techniques to create simple Web Pages.

Some students may choose to work in depth on Word Processing while others may choose to develop Web pages for our Intranet. Still others can get involved in desktop publishing of documents.

Successful completion of the unit will be based on students' degree of completion of required work and the quality of work.

09CEP - Creative Plastics

LEARNING AREA: Technology

CONTACT TIME: One semester

AIM:

The course aims to introduce students to various types of plastics and the methods that are commonly used to form and shape them.

CONTENT:

The students will plan, design and make a variety of functional and decorative projects that will encompass a variety of manufacturing processes and techniques. They will also study the safe handling of plastics and associated adhesives.

Some of the processes will include:

- Dip coating
- Injection moulding
- Vacuum forming
- Dome blowing
- Casting or embedding
- Welding
- Numerical controlled machining

09CWS - Creative Wood Skills

LEARNING AREA: Technology

CONTACT TIME: One semester

AIM:

For students to learn the fundamentals of project design and organisation.

To give students the opportunity to make and implement their own design decisions within practical constraints.

For students to learn and apply some important construction skills and techniques used in timber projects of moderate scale.

CONTENT:

Students will be given design problems which they will be asked to solve in individual ways e.g. to design and make a container that is portable, incorporates a rebate/butt joint and will securely contain the contents when it is being moved; the solution could be a food tray, a carry case, a tool box or numerous other items.

Other projects may include designing and making a storage module or a structure such as a small coffee table that is comprised of a dowelled frame. Projects will be developed through folio work and practical skill building exercises.

WORK REQUIREMENTS:

- A Design Folio per project
- 2 or more completed projects
- Class learning exercises

09DHM - Dance (Human Movement)

LEARNING AREA: Health & Physical Education

CONTACT TIME: One semester

AIM:

The unit will focus its attention on the basics of dance. Students will examine many aspects of human movement as a whole class (teacher directed), but focusing on small group and partner work, with students developing their own exercises, routines and performances. Students will develop an awareness of space, their body, and the link between the two, as well as the ability to interpret both movement and music. Various movement styles will be explored.

CONTENT:

Topics to be covered:

- Space and position in space
- Movement exploration
- Dance/Human Movement as a means of communication
- Understanding and interpretation of music
- Dance styles
- Modern dance variations

These topics are covered as components of 3 sections (Dance-making; Dance of other Cultures; and Narrative Dance).

09DRA - Drama

LEARNING AREA: The Arts

CONTACT TIME: One semester

AIM:

The aims of the course are the acquisition of personal skills vital for co-operation in groups/social interaction:

- The ability to follow instructions and work independently
- The ability to order one's thoughts clearly, and to express these
- The ability to analyse and evaluate constructively
- The ability to work co-operatively with others
- The ability to listen to others; a demonstration of tolerance to the ideas and values of others
- The ability to display initiative in all aspects of dramatic production
- The ability to appraise other's work with sensitivity and tolerance
- The ability to perform through the media of both scripted and unscripted drama
- To extend one's potential for creative improvisation
- To be able to perform significant works in front of a large audience
- To build up a student's self esteem and confidence
- To utilise research skills

CONTENT:

Students are encouraged to develop:

- Problem solving skills through negotiation with the teacher
- Responsibility and ownership for what is learnt
- Independence in communicating and formulating ideas
- Confidence and accept challenges

At this level students are encouraged to think more broadly about the nature of man and the society he has created. Improvisation, role-play and discussions revolve around the social or personal issues most relevant to the students' level of experience.

Topics may include:

- Power relationships
- Peer group pressure
- Investigating a playwright
- Dramatic elements
- Stagecraft elements
- Dramatic styles and forms
- Monologues
- Scripted & unscripted dramas

09ENP - English Plus

LEARNING AREA: English

CONTACT TIME: One semester

AIM:

To improve a range of basic English skills for students who have previously experienced some level of difficulty in using and controlling language, and in comprehending texts.

CONTENT:

The course will be tailored to the needs of individual students.

The course will focus upon encouraging students to develop greater confidence and competence in terms of:

- Reading skills
- Writing skills
- Speaking and listening skills

TYPICAL WORK REQUIREMENTS:

Regular reinforcement of basic English skills, including the development of “Reading for Meaning” strategies, proof-reading, editing and redrafting activities, planning, note-taking, etc.

09HCL - Geography I - Human Rights (Child Labour)

LEARNING AREA: Studies of Society & Environment

CONTACT TIME: One semester

AIM:

This unit is designed to put issues such as development and human rights in a geographical context.

CONTENT:

This course is designed to give you the opportunity to investigate issues confronting humans. We will also attempt to complete some comparisons of living conditions between different countries and study some of the issues arising from these differences.

- Images of the Developing World
- Differences between rich and poor countries
- Define the Third World
- What are Human Rights?
- Case studies including Child Labour

Emphasis will be on building geographical skills including data presentation and interpretation. There will also be a strong focus on research. Work requirements will vary in length and presentation.

WORK REQUIREMENTS:

- Research assignments
- Interpretation and skills exercises
- Tests

09CLS - Geography II – Changing Landscapes

LEARNING AREA: Studies of Society & Environment

CONTACT TIME: One semester

AIM:

To become familiar with the actions of nature and man that shape our landscapes.

CONTENT:

Landscapes on Earth are constantly changing through natural processes and the action of man. This unit investigates how and why these changes occur. Water is an important resource, basic to all human life. Major emphasis of this study will centre on the formation and characteristics of individual river channels and whole drainage systems. Using an inquiry approach we investigate:

- The value of rivers and their valleys to man
- Man's interaction with river systems e.g. floods, irrigation, hydro-electric power, dams, ports transport links
- The effects of river use on people and environments
- Australian examples will be studied, including the Murray River and some other regional rivers, as well as the major river systems of the world
- Regional landscapes and/or Antarctica may also be covered if time permits

WORK REQUIREMENTS:

- Map work – Analysis of river systems from topographical maps
- Fieldwork reports
- Video analysis
- Research assignments
- Tests

09GCA - Graphic Arts

LEARNING AREA: The Arts

CONTACT TIME: One semester

AIM:

This unit is still based on a broad graphics program; students may work in a number of areas as an extension of their core graphics.

This subject is for students who have an interest in graphic design and how it may be applied to specific problems. Students will be expected to negotiate the specific content of their course:

- To develop skills in illustration - a variety of techniques
- To study basic concepts of design
- To develop skills in graphic layout and typography
- To extend the concept of developing ideas and final presentation (essential in VCE graphics)

CONTENT:

- Information Design - Corporate Logos & Posters
- Environmental Design - Architectural Design
- Product Design - Industrial Design

CURRICULUM FOCUS:

- Creating, Making & Presenting
 - Exploring and developing ideas
 - Using skills, techniques and processes
 - Presenting
- Arts Criticism & Aesthetics
 - Analysis of the Graphic Communication of others
- Past & Present Contexts
 - Investigation of the changing trends in Australian design

09HRR – History - Revolution and Reform

LEARNING AREA: Studies of Society & Environment

CONTACT TIME: One semester

AIM:

Students acquire an understanding of the Great Revolutions which have shaped human history and the often brutal and bloody aspects of these events.

CONTENT:

Will be selected from:

- French Revolution (1789)
- Russian Revolution (1917)
- Chinese Revolution (1949)
- Anti-Colonialism and the Cold War

In each study we examine the background factors, precipitous events, driving personalities and aftermath.

Also examined is the role of Power, Corruption, Religious Zeal, Ideology, Philosophy, Socio-Economic Inequality and Impoverishment.

POSSIBLE WORK REQUIREMENTS:

- Mapping activities
- Timeline construction
- A research assignment
- A debate
- Video and film analysis
- An analytical essay
- Diagram drawing
- Concept mapping

09IN1, 09IN2 - Indonesian (Feasts, Family and Fun)

LEARNING AREA: LOTE

CONTACT TIME: Must select for Semester 1 & 2

PRE-REQUISITES: Students must have successfully completed Year 8 Indonesian to enter this course.

CONTENT:

The Year 9 Indonesian course is based around the main topics of Indonesian cuisine, Indonesian sports and games, rooms of the house, daily routine and household chores. The main aim of the course is to allow students to continue to extend and apply their knowledge of Indonesian people, language and culture. This is achieved through tasks in the areas of listening, speaking, reading and writing in Indonesian.

Students are ultimately working towards being able to comprehend and communicate independently and accurately in both written and spoken Indonesian.

Students are also encouraged to participate in the Sister School Program we have with SMP Negeri 5 in Yogyakarta, Indonesia. They will be able to communicate with students from our sister school via email and other means. They will also have the opportunity to make contributions of their own work to packs of student work which will be sent for display at our sister school.

Students participate in a range of communication activities aimed at developing and assessing their skills in writing, reading, listening and speaking in Indonesian. These activities are both formative and summative tasks and include:

- Classroom discussions in English and Indonesian
- Various language rich tasks based on the individual units
- Written tasks and assessment
- Ongoing speaking and listening tasks
- Role plays
- Weekly word tests
- Reading comprehension
- End of unit tests

Various resources will be used during the Indonesian course including:

- Textbooks
- Videos
- Songs
- Magazines
- The internet
- Penpal letters
- e-mails

09JLM - Journalism

LEARNING AREA: English

CONTACT TIME: One semester

AIM:

Students gain an understanding of how a newspaper is put together through practical applications. Class work will enable them to recognise bias in the media and develop their own journalistic skills and opinions of current issues.

A major focus for this subject is to assist with the development and production of the school magazine.

CONTENT:

- Analysis of the content and layout of a typical newspaper
- Interviewing
- Reporting
- Layout
- Cartoon Design
- Presentation of an Issue
- Production

WORK REQUIREMENTS:

- Investigation of a newspaper
- Writing Folio
- Oral Presentation
- Front Page Design
- Contribution to Newspaper/Magazine/Promotional Brochure
- Review
- Evaluation

09LN1, 09LN2 - Latin

LEARNING AREA: L.O.T.E.

CONTACT TIME: Two semesters

Year 9 Accelerated Beginners & Intermediate Latin.

Students with previous experience of Latin and those with **no** previous knowledge will be catered for.

Students wishing to do Latin in the second semester must have completed the first semester of Year 9 Latin.

AIM:

Latin, although a 'dead' language, has provided the blueprint for many modern European languages including French, Italian, Spanish, Romanian, Portuguese and even English. It is still used in various professional areas including the sciences, horticulture and medicine. Latin expressions are also found in Law and other areas of study.

There are various benefits to studying Latin, including:

- Understanding of terms used to name and describe chemicals, plastics, plants, animals, medical conditions and so on
- Understanding of grammatical structures found in most modern European languages
- 15% mark-up of a VCE Latin score, plus 10% bonus for having studied a language at Year 12 level
- The enjoyment of reading and understanding ancient texts

Level of difficulty:

Latin is a highly structured language and requires students to remember rules and apply them. In some respects it is rather like doing a puzzle. The Beginners and Intermediate course will be structured to provide a fairly easy path into the grammar of the language; irregularities and complexities will be introduced at Year 10 /11 level. A good knowledge of English through wider reading will greatly help students understand and retain vocabulary.

Course content:

- Vocabulary topics may include: various aspects of daily life, battles, myths and legends.
- Grammatical knowledge will focus on the basic building blocks of the language with a view to providing students with a solid understanding of regular language patterns.

09LAW - Law for Living I - Young People and the Law

LEARNING AREA: Studies of Society & Environment

CONTACT TIME: One semester

AIM:

Students will be exposed to a body of law which they are likely to encounter over the next few years. The aim is to help them understand their rights and obligations in a variety of situations so as to avoid difficulties with society and the law. The areas studied will be negotiated based on class interest.

CONTENT:

Students will cover:

Compulsory:

- Sources of law – Where does our law come from?
- The court hierarchy
- Legal personnel
- Criminal law (legal/non-legal rules, types of crimes, summary/indictable offences, trials)
- Criminal and civil liability, voting.

Possible negotiated topics:

- The effects of age (under 18) in legal matters concerning....Leaving home, Leaving school, Drugs/ Alcohol/ Cigarettes, Getting married, Sexual relationships
- Abortion
- Crime and punishment
- Prostitution

09LIT - Literature

LEARNING AREA: English

CONTACT TIME: One semester

AIM:

The Year 9 Literature course aims to improve confidence and competence in reading and responding to literature, as well as to foster an enjoyment of literature.

CONTENT:

The course will examine definitions of literature and will also aim to develop critical thinking skills.

A range of texts will be studied throughout the unit - novels, short stories, poems, plays, films.

Students will be expected to provide **analytical and creative responses**, as well as maintaining a **workbook**.

TYPICAL WORK REQUIREMENTS:

- Reading journal
- Reviews
- Folio
- Extended responses
- Oral presentation

LOTE - Lote through the Distance Education Centre of Victoria

LEARNING AREA: Languages Other Than English

The Distance Education Centre of Victoria offers many languages at Beginner level. These include Italian, German, Indonesian, Modern Greek and Latin.

Portland Secondary College assists this program by providing supervision, Interactive Satellite Television and administration.

You are not required to have experience in a particular language in order to study through the School of Distance Education.

Students need to complete a separate enrolment form and pay the enrolment fee to D.E.C.V. and purchase the required books.

Students intending to study LOTE through the Distance Education Centre of Victoria as part of their VCE studies are required to gain permission from their Year Level Coordinator.

For further information see the LOTE Coordinator.

09MAR - Marine Science

LEARNING AREA: Science

CONTACT TIME: One semester

AIM:

In this unit we investigate the sea as an environment. The unit also aims to develop practical and research skills.

CONTENT:

- Oceanography - In this introductory unit, students investigate the physical properties of the ocean. They learn about salinity buoyancy, the ocean floor, tides, waves and currents.
- Marine plants and animals - Students investigate marine plants and animals, specifically the way they interact and adapt to their environment.
- Coastlines and Ecosystems - An excursion shows students the varying coastlines around Portland. They then focus on Rocky Shores, learning about the plants and animals and the physical factors that affect them. Students will visit Whites Beach on a number of occasions to help the DSE with a continuity study.

ASSESSMENT TASKS:

- Annotated Visual Display
- Group talk/Presentation
- Field report
- Homework
- Research investigation
- Workbook

09MAA – Mathematics A

LEARNING AREA: Mathematics

CONTACT TIME: One semester extension to Core Mathematics program.

AIM:

To provide assistance for students who have had difficulties with mathematics and who wish to improve their basic understanding of topics.

To build confidence, consolidate skills and to develop understanding of concepts in mathematics.

To apply mathematics to the real world.

CONTENT:

Topics that will be included:

- Directed Numbers – revision and application of negative numbers
- Networks – organisation, schedules and timetables
- Trigonometry – introduction
- Graphing – introduction to gradient

Students will study new mathematical topics requiring use of basic skills. Some work will compliment core maths work.

TYPICAL WORK REQUIREMENTS:

- Skills practice in topic areas through assignments, tests and homework.
- Problem solving activities and projects, possibly using group work.
- Portfolio of work

09MAB – Mathematics B

LEARNING AREA: Mathematics

CONTACT TIME: One semester extension to Core Mathematics program.

AIM:

To challenge students with a sound understanding of mathematics with emphasis being on the application of mathematics.

CONTENT:

Topics included are:

- Measurement – speed, rates, volume, weight
- Networks - organisation, schedules and timetables
- Combinatorics – methods of counting applying to things like Keno, Tattslotto, number plates
- Number systems

TYPICAL WORK REQUIREMENTS:

- Skills practice in topic areas through assignments, tests and homework
- Problem solving activities and projects possibly using group work
- Portfolio of work

09MAC – Mathematics C

LEARNING AREA: Mathematics

CONTACT TIME: One semester extension to Core Mathematics program.

AIM:

To challenge students with a high level of ability in mathematics and prepare them for Year 10 Mathematical Methods and VCE. Students will be required to enter the Australian Maths Competition.

CONTENT:

A selection from the following topics:

- Transformations – lines and axes of symmetry in 2D & 3D. Translations and loci of moving objects
- Algebra – working with fractions in algebra
- Linear programming/simultaneous equations
- Trigonometry – measurement with radians in circles
- Technology – use of graphics calculators
- Matrices - using matrices to solve simultaneous equations
- Permutations and combinations - Factorials - use of combinations in choosing committees
- Number systems
 - integers/natural/rational numbers
 - applications to binary numbers and computers

TYPICAL WORK REQUIREMENTS:

- Skills practice in topic areas through assignments, tests and homework
- Problem solving activities and projects, possibly using group work
- Tests

09MU1, 09MU2 - Music

LEARNING AREA: The Arts

CONTACT TIME: Can be chosen for one semester

AIM:

The Year 9 music extension involves students in a variety of exciting and challenging activities to develop their musical skills and interest in performance, composition and listening.

Music may be undertaken in any semester, although is it best studied as a sequence for the whole year. There are no pre-requisites, but students who play an instrument/voice are most suited to study this subject.

CONTENT:

■ **Group Performance:**

This activity helps students to become better musicians by learning skills required for rehearsals and performances as part of a group.

■ **Computers and Music Technology:**

Students have access to the computers to record their music and print sheet music. The study of public address systems is part of the music technology activity.

■ **Creative Organisation:**

Involves song writing, arranging and improvisation. Students have the opportunity to write music for solo instruments to larger ensembles, such as the class band.

■ **Aural Comprehension**

Involves ear training and listening to music and developing skills to become a better musician.

09PTO - Photography

LEARNING AREA: The Arts

CONTACT TIME: One semester

AIM:

The aim of this extension is to introduce the skills of photography through the completion of basic and advanced photography techniques. The course covers all areas of black and white photography.

CONTENT:

- Darkroom use
- Photograms and photo montage
- 35mm camera photography and enlargement
- Negative development
- Portraits, shape, texture, still life.
- Darkroom tricks
- Presentation
- History of Australian photography

09PED - Physical Education

LEARNING AREA: Health & Physical Education

CONTACT TIME: One semester

AIM:

- To undertake sports leadership training.
- To develop self esteem through participation in team activities.
- To experience a wide variety of team and individual sports and learn advanced skills.
- To develop decision making skills related to team selection and strategies.
- To develop physical skills.

CONTENT:

- Water polo - An extensive unit covering the basic skills and strategies of water polo
- Half court Basketball - Students organise, implement and participate in a half court basketball tournament. Each student takes a leadership role in this
- Korfball - A unit covering the basic philosophy of Korfball is covered primarily to increase the lead of co-operation in a sporting environment
- Weight Training - The basics of safe and productive resistance training is covered and experienced with students putting together their own programs

Fitness is worked on via a series of minor games that students are involved in leading. Students are exposed to a variety of training methods

09PHS - Physics

LEARNING AREA: Science

CONTACT TIME: One semester

Physics is the study of the way the physical world around us works, from the smallest particle to the largest galaxy. Everything around us is described by the laws of physics – from mobile phones to distant galaxies to the way we move. This unit introduces students to some of the basics of physics, including force, energy and astronomy. It is highly recommended for students who wish to study any VCE science subject, especially Physics.

WORK REQUIREMENTS:

This will include:

- Workbook
- Practical laboratory work
- Research investigations
- Tests
- Assignments
- Posters
- Talks

TOPICS COVERED:

- What is Physics?
- Forces
- Bridges
- Energy
- Astronomy

09PSY - Psychology

LEARNING AREA: Science

CONTACT TIME: One semester

AIM:

To increase students' awareness and knowledge of the structure and function of the brain as well as their understanding of communication and modes of learning.

CONTENT:

The Brain and Behaviour

- Brain structure and function
- Left-right brain
- Role of brain in controlling behaviour

Social Behaviour

- Communication
- Relationships
- Feelings
- Love

Disorders

- Definition of disorder (in relation to 'normality')
- Types of disorders
- Research study of a selected disorder

Learning

- Theories of learning (simple and complex)
- Learning at school – factors affecting
- Learning in relation to brain

Individual Research Topic

- Students research and report on a topic of their choice (E.g. sleep, memory, perception, dreams, intelligence, attitudes, personality)

NOTES:

- Topics 1, 2 and 4 are to be presented in such a way as to have direct application to the students' life and learning
- The subject is to be taught with a Science-oriented approach in preparation for possible further studies in this area in VCE
- Assessment tasks will be varied, and will use some of the approaches used in VCE Psychology

09STC - Systems and Technology

LEARNING AREA: Technology

CONTACT TIME: One semester

AIM:

This course is designed for students who want to learn about electronics and mechanics as a hobby or have these fields in mind as a possible career path.

CONTENT:

A small amount of **theory** related to the models built, so that an appreciation of “WHY” and “HOW” it works is developed.

Units to be covered include:

- atomic theory
- conductors, insulators
- symbols and units
- Ohm’s law
- resistors
- basic soldering
- steering systems
- braking systems
- basic structural engineering
- fitting components together
- basic machining
- introduction to welding
- pneumatics

Practical work:

- Electronic siren
- Hydro-rockets
- Small billy cart

Work Requirements:

- Skills exercises
- Design exercises
- One or more finished projects
- A design portfolio for each project that charts the design and production processes.

09TYT - Technology - Fibre & Fashions I

LEARNING AREA: Technology

CONTACT TIME: One semester

AIM:

In this unit students will investigate, manipulate and work with a wide variety of textiles and make products by working through the design process. Students will develop one or more design briefs, and then choose fabrics, tools and techniques based on examination of their characteristics, availability and suitability for the particular need or purpose. They will then evaluate their products, tools and procedures according to appropriate standards. Students will use systems analysis techniques which are integrated throughout the unit to monitor and improve their production. VELS standards from the Design, Creativity and Technology and Thinking strands will be used as a guide for assessing expected student achievements.

CONTENT:

The focus of this course is on developing confidence in selecting and using commercial patterns.

Students will be encouraged to enhance their products with dyes, stitchery, quilting and other decorative techniques.

Following negotiation with their teacher, students will plan and produce a teacher directed product and at least one article of their own choice. The actual products made will vary, reflecting skill development, resources and needs of the student. It is expected that at least one article will be completed and that the products will extend the skill and knowledge of the student.

Examples of appropriate articles include:

- Camping gear - backpacks, hiking bags, duffle bags
- Sportswear - casual gear, sport warm-up tops and shorts, windcheater and track pants
- Raging gear - dresses, skirts/pants/tops, vests etc.
- Horse rugs
- Surfboard covers
- Seat covers
- Cushions
- Sleepwear - night shirts, P.J.s, boxer shorts

NB: Students will be expected to supply their own fabric for articles selected.

09AT3D – Three-Dimensional Studies

LEARNING AREA: The Arts

CONTACT TIME: One semester

This course will complement and broaden students' art skills with an investigation into 3-dimensional materials and techniques such as papier-mache' plaster casting, clay, found objects. The emphasis is on imagination and experimentation.

AIM:

- To promote an appreciation of 3-dimensional art works
- To develop and extend 3-dimensional skills/techniques
- To develop an appreciation of 3-dimensional artists in art history
- To encourage the development of a personal aesthetic in relation to 3-dimensional artworks

CONTENT:

3-Dimensional studies challenges the students' idea of form, shape, texture and space. Students are given a variety of design and construction tasks to master along with encouragement to use a variety of different materials. Papier-maché, wire, found objects and clay are examples.

During the course students view a range of visual material including PowerPoint presentations, videos, art books and internet sites associated with artists who work in three dimensions. Students will choose one artist to research and can negotiate how this report will be presented.

09AT2D – Two-Dimensional Studies

LEARNING AREA: The Arts

CONTACT TIME: One semester

This course will complement and extend students' art skills with an investigation into a range of painting/drawing techniques such as watercolour, acrylic, gouache, conté, pastel, coloured pencil, and collage. The emphasis is on imagination and experimentation.

AIM:

- To promote an appreciation of painting/drawing
- To develop and extend painting/drawing techniques/pastel and water colour skills
- To develop an appreciation of draughts-people/painters in art history
- To encourage the development of a personal aesthetic in relation to painting/drawing

CONTENT:

This unit begins with exercises that allow students to fully explore the media/materials/techniques available, encouraging personal expression. This unit includes exercises and projects that allow students to fully explore the media/materials/techniques available, encouraging self expression. Students are required to produce finished artworks together with evidence of their development in their Visual Art Diaries.

Students will choose a modern artist to research and will negotiate how this report will be presented e.g. PowerPoint, written, oral.

09WWM - Working With Metals

LEARNING AREA: Technology

CONTACT TIME: One semester

AIM:

To introduce to each student an awareness of the characteristics of metals and to develop skills in production techniques that are associated with the shaping and working of metals. To acquire skills that are beneficial for future VCE studies or for employment.

CONTENT:

The content focus will be dependent on the expertise of the teacher in charge; however the following should act as a guide to the intended outcomes.

Students will be involved in the design, production and evaluation of one or more products made from metal. Some of the production techniques that could be employed are forging, bronzing, fusion (gas) welding. There will also be an opportunity to experience machining operations on a metal lathe.

The actual **work units will be individually negotiated with the teacher** however, possible work units could include.

- Decorative metal projects
- Plumb bob
- Nail or centre punch
- Pen stand/desk tidy
- Bike stand

RESOURCES:

A modern fully equipped classroom is available to encourage students to excel and further develop their skills.

A design room equipped with computers and printer is available for whole class tuition in CAD drawing and other multimedia applications.

Some form of protective clothing, which is supplied and laundered by the student, would be desirable.

Indicative Year 9 Subject Contributions – 2010

The listing below details the subject contribution rates that applied for Year 2009. These are provided as a guide to the expected rates that will be individually invoiced to families in January 2010.

Should you have any concerns relating to these contributions please contact the College Business Manager, Mr. John Thomas.

CORE EXTENSIONS Cost per unit or Semester			CORE EXTENSIONS Cost per unit or Semester		
SOSE	Australian History	7.00	Mathematics	Maths A	7.00
	Geog. - Changing Landscapes	8.00		Maths B	7.00
	Geog. - Human Rights	8.00		Maths C	9.00
	Law for Living 1	6.00	Health & Phys. Ed.	Physical Education	19.00
	History - Revolution & Reform	8.00		Dance	16.00
The Arts	2D	26.00	Science	Marine Science	16.00
	3D	26.00		Chemistry	11.00
	Drama	7.00		Physics	10.00
	Graphic Arts	19.00		Biology	10.00
	Music 1	17.00		Psychology	10.00
	Music 2	17.00	Technology	Creative Plastics	30.00
	Photography	31.00		Creative Wood	35.00
English	Art of Writing	4.00	Composite Constructions	28.00	
	English plus	5.00	Computer Publishing	7.00	
	Journalism	4.00	Systems & Tech.	24.00	
	Literature	4.00	Technology – Fibre & Fashions I	31.00	
LOTE			Working with Metals	34.00	
	Indonesian 1	22.00			
	Indonesian 2	22.00			
	Latin 1	10.00			
	Latin 2	10.00			

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