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# YEAR 9 COURSE INFORMATION

**Mullauna College**



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# CONTENTS

<b>Course Organisation</b>	<b>3</b>
<b>Assessment</b>	<b>4</b>
<b>Homework</b>	<b>4</b>
<b>English</b>	<b>5</b>
<b>English as an Additional language</b>	<b>5</b>
<b>Humanities: Geography</b>	<b>6</b>
<b>Humanities: History</b>	<b>6</b>
<b>Health &amp; Physical education</b>	<b>7</b>
<b>Sport education</b>	<b>7</b>
<b>Mathematics</b>	<b>8</b>
<b>Science</b>	<b>9</b>
<b>Skillz</b>	<b>10</b>
<b>German</b>	<b>11</b>
<b>Architecture and Product Design</b>	<b>12</b>
<b>2D Art – Draw, Paint, Print</b>	<b>12</b>
<b>3D Art – Ceramics and Sculpture</b>	<b>13</b>
<b>Digital Art</b>	<b>13</b>
<b>Graphic Design</b>	<b>14</b>
<b>Creative Media</b>	<b>14</b>
<b>Filmmaking</b>	<b>15</b>
<b>Music – Music Performance</b>	<b>16</b>
<b>Music – Screen Music</b>	<b>16</b>
<b>Drama – Drama Masterclass</b>	<b>17</b>
<b>Drama – Stage School</b>	<b>17</b>
<b>Programming Basics</b>	<b>18</b>
<b>Robotics</b>	<b>18</b>
<b>Food and Culture</b>	<b>19</b>
<b>Food for Life</b>	<b>19</b>
<b>Creative Writing</b>	<b>20</b>
<b>Environmental Science</b>	<b>20</b>
<b>Forensic Science</b>	<b>21</b>
<b>Invent and Learn</b>	<b>21</b>
<b>Sports Science</b>	<b>22</b>

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## COURSE ORGANISATION

The Year 9 program includes a combination of core subjects and elective subjects.

Subjects	Periods per week
English	4
Health & Physical Education	2
Humanities – Geography & History	3
Mathematics	4
Science	3
Skillz	6
Sport	2
Elective 1	3
Elective 2	3

### Elective Subjects

In 2022, Mullauna College students will be undertaking combined Year 8 and 9 Elective subjects. This will enable students to select from a wider variety of subject choices.

Year 9 students will undertake 2 elective subjects each semester from the list below. Each elective subject will be timetabled for 3 periods per week. Students may not undertake the same elective twice in any year. Please note elective subjects will only run if selected by enough students.

Students electing to continue with German in Year 9 will undertake this elective for the entire year. It is strongly recommended that students proceed with their study of German through to VCE because of the increments this provides in boosting a student's Australian Tertiary Admission Ranking (ATAR) scores.

Students who include German and Higher Level Mathematics in their VCE studies are eligible to be awarded the VCE Baccalaureate. This is highly regarded by tertiary institutions when considering students for admission.

### 2022 Elective List:

#### General:

Creative Writing, Environmental Science, Forensic Science, Invent and Learn, Sport Science

#### Languages:

German

#### Performing Arts:

Drama Masterclass, Music Performance, Screen Music, Stage School

#### Technology:

Programming Basics, Food and Culture, Food for Life, Robotics

#### Visual Arts:

2D Art (Draw, Paint, Print), 3D Art (Ceramics & Sculpture), Architecture and Product Design, Creative Media, Digital Art, Filmmaking, Graphic Design

#### Excel Program

A program for high achievers operates in Years 9. This program aims to extend students' learning across all core subjects with most students operating 6-12 months ahead of expected level.

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## ASSESSMENT

There are three modes of assessment at Year 9.

### 1. Assessment Tasks

A grade will be awarded for specific tasks and projects. The grades indicate how well the student is performing in these areas of the unit.

There will be a minimum of three assessment tasks for each unit. Assessment tasks can include major projects, topic tests, written reports, oral presentations and folios. A grade will be awarded for each task.

To satisfactorily complete a unit, a student must obtain a 'N' in no more than one assessment task.

### 2. Level of Achievement against Statewide Learning Standards

Students will be assessed against the Victorian Curriculum standards. This framework identifies eight learning areas and four general capabilities for the Prep to Year 10 curriculum. The Learning Areas describe distinct disciplines, while the capabilities represent knowledge and skills that are developed and applied across the curriculum.

The Victorian Curriculum includes standards at ten levels. The level broadly associated with schooling at Year 9 is Level 9. Student achievement will be reported against the achievement standards indicating the level of attainment reached by each student and the age expected level of attainment.

### 3. Work Habits

Students are assessed in the Work Habits of Effort, Class Behaviour, Meeting Deadlines and Organisation

## HOMEWORK

Home study reinforces the development of skills in organisation, planning and self-management that are crucial in assisting students to become independent learners.

It is expected that students in Year 9 will complete a minimum of 8 to 10 hours homework per week.

Students should set aside regular times in the week that will best suit their schedule of activities. This time should be used to ensure that all required work (set homework, incomplete classwork, assignments, and test revision) is completed and submitted for assessment by the due date. Mathematics and German require regular practice, and, for English, it is essential that the reading of set texts and independently selected books is a nightly practice.

A **Student Homework and Study Planner** is provided for each student to facilitate the recording, organisation and management of homework. Parents can assist this process by regularly checking that homework has been recorded.

This **Course Information Booklet** should be kept in a safe place for reference throughout the year. Like the Planner, it assists students in monitoring their progress

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## CORE SUBJECTS

### ENGLISH

#### Overview

##### Content

English is the area in which students continue to practise, consolidate and extend what they have learnt from previous levels. Students study the craft of writing and use the English language in all its variations and develop a sense of its richness to evoke feelings, convey information, form ideas, persuade and argue. Students learn to write, create and reflect on complex and sophisticated texts. At this level, students are required to participate in oral language activities, whereby they present viewpoints and information in a variety of situations, listen attentively and respond constructively. They are encouraged to take responsibility for their learning and become independent learners.

##### Key Skills

On completion of this course students are able to:

- Produce, in print and electronic forms, writing for a variety of purposes
- Read and view imaginative, informative and persuasive texts
- Produce a range of responses, including interpretive pieces and personal reflections
- Present creative, informative or persuasive responses to texts, themes and issues, as individuals or in groups
- Ask clarifying questions and build on the ideas of others

##### Assessment Tasks

- **Writing:** a variety of writing tasks for different purposes and audiences
- **Text response:** a minimum of three texts studied and relevant assessment activities completed
- **Wide reading:** a minimum of two texts to be read independently and relevant assessment activities completed
- **Oral presentation:** a minimum of one oral activity per semester
- **Examinations:**  
Semester 1: a 1½ hour examination paper  
Semester 2: a 2 hour examination paper

### ENGLISH AS AN ADDITIONAL LANGUAGE (EAL)

#### Overview

##### Content

EAL students are a highly diverse group, of different ages, at different stages of learning English, from differing first-language backgrounds and with varying amounts of education in their first language. The subject EAL accommodates this by providing English language development within a set of standards describing expectations for EAL learners. The secondary stages (Year 7-10) of EAL learning are described as S1, S2, S3 and S4, and provide a set of practical, observable ways in which students are likely to demonstrate their achievements in English language learning.

This subject will run on a needs basis.

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## HUMANITIES: GEOGRAPHY

### Overview

#### Content

Students develop knowledge about a major natural system that are part of the biosphere and atmosphere. They study how people interact with their physical environments and the issues that have developed due to this. Students identify strategies to address these issues and explore ways of managing them. Topics may include tourism, biomes, and food security.

#### Key Skills

On completion of this course students are able to:

- Explain the processes and interactions between people and major natural systems, and evaluate the factors affecting the distribution of human population
- Predict the effects of resource development on the environment and develop a strategy to resolve an environmental issue
- Understand the impact of global issues
- Identify research topics, develop questions and research effectively
- Understand characteristics of development that occur across the globe

#### Assessment Tasks

- **Analytical Exercise:** an analysis and evaluation of visual and other source material
- **Case Study:** a detailed investigation of a selected topic
- **Research Report/s:** an extensive report/s on a selected topic/s
- **Examination:** an examination at the end of the semester

## HUMANITIES: HISTORY

### Overview

#### Content

Students study human progress, how people have organized themselves into societies over time, and how events and ideas shape history. They examine the motives and actions of people at the time, and explore different interpretations of the past. Topics may include the Industrial Revolution, Colonisation of Australia, conflict with the Indigenous population, and World War 1.

#### Key Skills

On completion of this course students are able to:

- Understand the technological innovations that led to the Industrial Revolution and other conditions that influenced the industrialisation of Britain and of the settlement of Australia
- Analyse the effects of contact between European settlers in Australia and Aboriginal and Torres Strait Islander peoples
- Describe and analyse events which have contributed to Australia's social, political, and cultural development from colonial to modern times
- Analyse the impact of significant events and ideas, attitudes, and values in shaping world history in the early Twentieth Century

#### Assessment Tasks

- **Analytical Exercise:** an analysis and evaluation of visual and other source material
- **Case Study:** a detailed investigation of a selected topic
- **Research Report/s:** an extensive report/s on a selected topic/s
- **Examination:** an examination at the end of the semester



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## HEALTH AND PHYSICAL EDUCATION

### Overview

#### Content

Health and Physical Education provides students with knowledge, skills and behaviours to enable them to develop and maintain their physical, mental and social health. Students demonstrate proficiency of movement skills during complex activities, with the emphasis being on strategic thinking and tactical knowledge to improve individual and team performance. They maintain regular participation in moderate to vigorous activity and analyse and evaluate their fitness levels.

#### Key Skills

On completion of this course students are able to:

- Evaluate individual and group tactics, skills and movement patterns
- Employ games, physical activities and sports to improve performance
- Display leadership and teamwork skills in different situations
- Identify a range of issues associated with youth relationships
- Identify fitness components in a variety of sports

#### Assessment Tasks

- **Skill execution:** ability to perform complex movement and manipulative skills
- **Game sense:** ability to combine motor skills, strategic thinking and tactical knowledge
- **Laboratory reports:** a practical investigation with the intention of gathering appropriate data to allow the participant to analyse and interpret the information and respond to a series of structured questions

## SPORT EDUCATION

### Overview

#### Content

Sport Education provides students with knowledge, skills and behaviours to enable them to be lifelong participants in physical activity. Emphasis is on combining motor skills and tactical knowledge to improve individual and team performance. Engaging in sport contributes to a sense of community and social connectedness, thus improving wellbeing. Students select a different sport each term to participate in and have the opportunity to represent the college in interschool competition.

#### Key Skills

On completion of this course students are able to:

- Perform complex movement patterns that form part of team games
- Analyse strategies and tactics used in team games
- Explain the rules, player positions and roles associated with sports
- Use equipment safely and confidently
- Identify a variety of roles in sports such as umpire, scorer, coach, player, captain, team member, spectator and administrator and assume responsibility for the organisation of aspects of a sporting competition

#### Assessment Tasks

- **Activity Level:** Participation level in moderate to vigorous activities
- **Game Sense:** Ability to combine motor skills, strategic thinking and tactical knowledge



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# MATHEMATICS

## Overview

### Content

Students will use mathematics to model and investigate a broad range of mathematical situations. They will build on skills in the areas of number and measurement. Students will apply mathematical working to a variety of activities involved in the topics of space, algebra, probability and statistics, and graphing and measurement.

### Key Skills

On completion of this course students are able to:

- Use a range of mathematical techniques to solve mathematical problems
- Communicate their understanding using correct mathematical language and notation
- Problem solve by employing a variety of strategies
- Define key mathematical concepts
- Select appropriate technologies as an integral part of their mathematical activities

### Assessment Tasks

- **Tests:** complete tests within each topic
- **Projects:** a range of mathematical investigations
- **Analytical tasks:** a range of in depth analysis tasks
- **Examination:** an examination at the end of each semester

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# SCIENCE

## Overview

### Content

Students will cover topics including materials, atomic structure, chemical changes, electricity, energy, ecosystems and body communication systems

Students build on scientific ideas through investigations, research and experiments. They collect data, analyse information and discuss evidence to suggest solutions to their individual scientific questions and ideas. They understand that some scientific theories are never agreed upon, but they are powerful ways of explaining the world we live in.

### Key Skills

On completion of this course students are able to:

- Demonstrate safe and technical use of a range of instruments and chemicals
- Design and carry out their own ethical and safe experiments
- Understand the similarities and diversity of living things
- Explore ways in which the human body as a system responds to its external environment
- Understand the major components of an ecosystem
- Describe how different forms of energy such as heat, light, electricity and sound are transferred
- Describe the properties of different of synthetic and natural materials

### Assessment Tasks

- **Tests:** completion of a range of topic tests at the end of each unit
- **Projects:** major projects including research and/or analysis is to be completed each semester
- **Practical reports:** written reports, completed individually based on experiments and practical activities run in class
- **Examinations:** an exam at the end of each semester

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# SKILLZ@ MULLAUNA

## Overview

### Content

All Year 9 students will be involved in this program for 6 periods per week. A different theme will be explored each term:

- Term 1: 'It's my life – Make it a success'
- Term 2: 'It's my city – Make it my backyard'
- Term 3: 'It's my future – Make it one I want'
- Term 4: 'It's my community – Make a difference'

For each theme, students will undertake a range of activities to develop skills that will help them to achieve success in Year 10 and beyond. Communication, teamwork, time management, self-reflection, empathy, job skills and more areas will be explored.

During each term, students will complete a major assessment task utilizing a range of ICT and multimedia programs. This work will be evaluated and then be displayed to celebrate the students' achievements.

A major component of the program will be excursions to the city and to various institutes as well as sessions and workshops run by guest speakers to explore the various themes. A 4-night challenge camp will be held in late November to develop individual and team skills.

### Key Skills

On completion of this course students are able to:

- Use a range of skills to communicate their ideas
- Access and use multimedia to present their assessment tasks
- Analyse and interpret information to develop an understanding of complex issues
- Work independently and as a member of an effective team
- Manage their own learning
- Display an ability to self-reflect and measure their own success
- Independently navigate their way around our city with an understanding of its culture and history
- Apply enterprising job skills relevant to the future workforce
- Exhibit the confidence to engage with and tackle some of the world's big issues

### Assessment Tasks

- **Actions for Success:** students work on a variety of activities that aim to help students learn more about success, resilience and happiness, and develop their own
- **Creative Melbourne representation:** students conduct research into an aspect of Melbourne and represent what they find as a 3D model, canvas painting or digital media presentation
- **Cover Letter and Resume:** students create cover letters and resumes they can use to secure future work
- **My Future Career:** students create a detailed and interesting display that provides information about an occupation they are interested in
- **'It's My Community' project:** in teams, students undertake research into a real-world issue that matters to them before developing and implementing ways they can make a positive difference regarding that issue
- **Rubicon Camp:** a 4-night camp where students are challenged to develop and demonstrate their resilience, perseverance, independence and interpersonal skills. They also take part in a project that promotes connection with community and environment

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## ELECTIVE SUBJECTS

The following section provides information on elective subjects:

### Languages

#### GERMAN

##### Overview

##### Content

Students will continue to develop knowledge, confidence, communication skills and enjoyment in studying another language. This subject will promote awareness of the culture and way of life in German-speaking countries. Students will interact to exchange information and opinions on topics related to the world of adolescence such as shopping, eating out, games, travel, health and housing.

##### Key Skills

On completion of this course students are able to:

- Identify relevant information and ideas from spoken and written texts, and use the language in new contexts
- Use a range of strategies to assist in listening comprehension
- Participate in conversations related to specific topics, by modifying modelled language to express themselves
- Read authentic texts on a variety of topics
- Write in paragraphs using linked sentences
- Create original materials in speaking and writing for specific audience and purpose
- Read short, selected passages with fluency and apply their knowledge of appropriate pronunciation and expression

##### Assessment Tasks

- **Written work:** a variety of exercises including creative writing
- **Listening:** written response to spoken texts
- **Reading:** a variety of texts with relevant questions answered
- **Conversation:** participation in role-plays

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## Visual Arts

### ARCHITECTURE AND PRODUCT DESIGN

#### Overview

##### Content

Students will undertake creative tasks exploring product design, interior design and architecture. They will apply the design process to develop designs to suit specific purposes and audiences. Students will explore technical and freehand drawing methods to communicate their ideas and use both digital and manual techniques to present their final designs. The work of other designers will be analysed through theory tasks.

##### Key Skills

On completion of this course students are able to:

- Apply technical drawing skills
- Demonstrate freehand drawing and rendering skills
- Apply the design process to develop 3D designs suitable for a set purpose
- Use both digital and manual techniques to present final designs
- Analyse examples of visual communications

##### Assessment Tasks

- **Environmental Design Task:** completion of environmental design task, including all relevant development work
- **Industrial Design Task:** completion of industrial design task, including all relevant development work

**Written Presentation:** a written report, completed individually

### 2D ART – Draw, Paint, Print

#### Overview

##### Content

Students will explore a variety of art materials and learn skills in drawing, painting and printmaking. They will learn new techniques in drawing and apply the skills in a variety of interesting topics involving acrylic painting and printmaking. They will apply the design elements and principles of art to create individual art pieces. Research will also accompany the practical component of the course.

##### Key Skills

On completion of this course students are able to:

- Use a range of ideas to create artworks and develop a personal style
- Explore themes, issues and ideas when making and presenting artworks
- Use a range of 2D materials and techniques
- Analyse and interpret the work of a range of artists and their artworks
- Use appropriate art terminology

##### Assessment Tasks

- **Drawing Task:** completion of a drawing task which shows development in observational drawing skills, including the application of tonal rendering
- **Painting Task:** a painting composition designed in a specific style that demonstrates an ability to mix and apply paint using a range of techniques
- **Written Presentations:** written reports based on research into a set topic to be supported by visual materials

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## 3D ART – Ceramics and Sculpture

### Overview

#### Content

Students will explore a variety of 3D art materials such as clay and other mediums. Students will learn to design and create 3-dimensional artworks using clay. Construction, glazing and firing techniques will be taught. Other materials such as wire, and mixed media will be explored to create interesting sculptures. They will apply the design elements and principles of art to create individual art pieces. Research of a variety of sculptors will also accompany the practical component of the course.

#### Key Skills

On completion of this course students are able to:

- Use a range of ideas to create 3D artworks and develop a personal style
- Explore themes, issues and ideas when making and presenting artworks
- Use a range of 3D materials and techniques
- Analyse and interpret the work of a range of artists and their artworks
- Use appropriate art terminology

#### Assessment Tasks

- **Ceramic Tasks:** completion of a series of hand-built clay pieces exhibiting various ceramic techniques
- **Major Sculpture:** completion of a sculpture using a range of materials, with relevant design process
- **Written Presentation:** written report/s based on research into a set topic to be supported by visual material

## DIGITAL ART

### Overview

#### Content

Students will explore contemporary issues and ideas which will help them develop knowledge, skills and understanding when making digital artworks by using a variety of methods and programs. They will learn the basics of digital photography and make photographic and digital works informed by their understanding of Contemporary Art and apply these skills to enable the creation of various artworks. Research will also accompany the practical component of the course. They will look at a variety of contemporary artists and artwork such as Barbara Kruger and Cindy Sherman, as well as Protest Art and Installations

#### Key Skills

On completion of this course students are able to:

- Use a range of ideas to create artworks and develop a personal style
- Explore contemporary themes, issues and ideas when making and presenting artworks
- Use a range of digital applications
- Analyse and interpret the work of a range of artists and their artworks
- Use appropriate art terminology

#### Assessment Tasks

- **Exploration Task:** a series of digital artworks which shows development in techniques including the application of various programs
- **Major Task:** a personal exploration that communicates individual ideas
- **Written Presentations:** written reports based on research into a set topic to be supported by visual materials

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## GRAPHIC DESIGN

### Overview

#### Content

Students will undertake a range of creative tasks exploring the way graphic design uses images and type to communicate messages and ideas. They will apply the design process to develop designs to suit specific purposes and audiences. Students will consider the use of design elements and principles, typography and layout to develop design ideas. They will use both manual and digital methods to present final designs. The work of other designers will be analysed through theory tasks.

#### Key Skills

On completion of this course students are able to:

- Demonstrate freehand drawing and rendering skills
- Apply the design process to develop graphic designs suitable for a set purpose
- Create effective design layouts
- Use both digital and manual techniques to develop and present final designs
- Analyse examples of visual communications

#### Assessment Tasks

- **Design Process Task:** completion of a range of graphic design tasks, including all relevant development work
- **Type in Design:** folio of design tasks focusing on the application of type, including all relevant development work
- **Written Presentation:** a written report, completed individually

## CREATIVE MEDIA

### Overview

#### Content

Students develop media production skills and enhance their understanding of the different forms of media, such as video and photography. They learn how to operate equipment and master techniques to enhance their creativity. They produce a series of short production exercises. Students produce a creative media product for an intended purpose and audience.

#### Key skills

On completion of this course, students are able to:

- Plan and produce a range of creative media products
- Use a range of media equipment and applications
- Analyse media products using appropriate media language

#### Assessment tasks

- **Practical Tasks:** a series of media productions
- **Media Design:** plan and produce a media product
- **Analysis response:** a written response to media texts

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# FILMMAKING

## Overview

### Content

Students develop filmmaking skills through a series of practical workshops and tasks. They learn how to produce short videos and how to operate a range of media equipment. They also learn lighting techniques, shot composition, how to record sound, and how to edit their productions.

### Key skills

On completion of this course, students are able to:

- Structure and plan short films
- Record video and sound using filmmaking techniques
- Use a range of media equipment and applications
- Use media language to analyse films

### Assessment tasks

- **Individual Production:** a series of production exercises
- **Film Production:** Short films and videos
- **Media Production Design:** a written and visual plan for film production



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## Performing Arts

### MUSIC – Music Performance

#### Overview

##### Content

The magic element of performing comes to life with a purpose and an audience. This subject will enhance the playing skills of each participant whether a total beginner or advanced player by preparing music for performance to a specific audience. We will look at masterclass-based learning and share elements involved in learning specific instruments.

##### Key Skills

On completion of this course students are able to:

- Prepare and Present performances independently
- Display effective teamwork and leadership skills
- Analyse and interpret theoretical concepts of music through performance
- Use appropriate musical terms
- Develop time management and presentation styles as a pathway to VCE

##### Assessment Tasks

- **Performance:** perform a piece of your choice at a masterclass performance session at the end of the semester. Small Group and class Performance: present a series of small group performances and associated tasks
- **Event management:** Learning the skills required to run an event at school including organising, evaluating, performing and Review writing
- **Teaching my Instrument:** work on a series of videos or written lessons to teach you own instrument

### MUSIC – Screen Music

#### Overview

##### Content

Are you a screen fan? Games, Movies, Netflix, all need music and sound effects to be effective. Students will spend time learning what works best in the variety of gaming, movie and TV based music and try this out both with instruments and digitally. They will use the free version of the program Muscores or Garageband and look at how to create effective music for their favourite game, screen show or movie.

##### Key Skills

On completion of this course students are able to:

- Analyse and interpret music that has a specific purpose
- Create their own music
- Understand musical structure
- Understand digital programs
- Source and use sound effects
- Develop independence and organization skills

##### Assessment Tasks

- **Create:** Creating a soundscape for visual media
- **Skill Mastery:** Completing a series of screen music performance activities
- **Research:** Research into our screen composers creative process

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## DRAMA – Drama Masterclass

### Overview

#### Content

This unit has been designed to help train young actors who aspire to perform both on the stage and in front of the camera. It will help students to develop their technique in acting through learning the basic performance skills of body language, mime, voice and improvisation. This will culminate in the presentation of a performance in front of the camera.

#### Key Skills

On completion of this course students are able to:

- Understand theatre styles including naturalism and the techniques required to present these styles
- Use improvisation to develop a variety of dramas around specific themes and from a range of stimuli
- Build a performance using theatrical conventions and dramatic elements as stimuli for a recorded and a live performance

#### Assessment Tasks

- **Performance and class participation:** an assessment of student's participation in practical workshops and class performances over the course of the semester
- **Group performance:** presented live to an audience
- **Group performance:** presented in a digital format to an audience

## DRAMA – Stage School

### Overview

#### Content

Over the semester, the Stage School class will work together to rehearse, stage and perform a small-scale production of a chosen play. Every student will take on an acting role (lead or minor) and will also be assigned to one of the following teams according to preference, interest and skills; Sets, Props, Hair and Makeup, Choreography, Assistant Directors, Costumes, Marketing and Sound/Lighting Design. Students will be responsible for ensuring that this element of the show is prepared for the performance. The cast will present the production to an audience at an evening performance. Students will also have the opportunity to view a professional live stage show. They will complete a critical review of the performance, detailing the effect the performance will have on their own.

#### Key Skills

On completion of this course students are able to:

- Understand and participate in the development of a small-scale production
- Interact with others in a stage context
- Manipulate the elements of stagecraft to enhance performance
- Use performance elements such as blocking, voice and character development to enhance their own performance

#### Assessment Tasks

- **Group performance:** presented to an audience
- **Folio:** documentation of the skills acquired through the creative process of rehearsal and assigned production role
- **Live performance review:** critical review of a live performance

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## Technology

### PROGRAMMING BASICS

#### Overview

##### Content

In this unit, students will learn how to create a platform game by utilising a simplified version of the python language. They will learn the fundamentals of programming such as storing variables and control structures to create a fluid and engaging game, as well as experiment with a variety of applications to advertise their unique games. Students will also use microcontrollers to create digital solutions that have real world applications, such as controlling a prosthetic hand.

##### Key Skills

On completion of this course students are able to develop:

- Create an interactive game using Gamefroot (or similar program)
- Utilise the basic functions of a variety of software applications
- Understand the foundations of Python language
- Add appropriate extensions to microcontrollers to perform complex tasks

##### Assessment Task:

- **Game development:** creation of a finished platform game using code-based game software
- **Creative design:** development of product marketing for finished game
- **Programming folio:** a design process to progressively develop gadgets

### ROBOTICS

#### Overview

##### Content

Students will experience building and design tasks as well as an introduction to programming. Programmable equipment along with student friendly programming software will be used to teach students about the difference between a machine and a robot, viable building designs and how to master programming by manipulating a flow chart screen. Students will design and build a range of machines that use gears, motors and pneumatics that can fulfill certain task requirements. Students will learn how to use programming software to write short programs that can be loaded on to the Ev3 (command centre) on their robot. They will manipulate motors, light sensors, sound sensors and any attachments they create for their robot. The robots will be under the students' full control and will be programmed to compete a range of complex tasks from acting as dodgem cars to moving through mazes and dancing to music!

##### Key Skills

On completion of this course students are able to:

- Identify key differences between a machine and a robot
- Follow instructional building guides to successfully build a range of Lego machines
- Use their own innovation to design new machines to fulfill certain tasks
- Write basic programs that manipulate moving parts of their robot
- Edit complicated programs to allow their robot to compete a multitude of tasks

##### Assessment Tasks

- **Folio of Practical Work:** completion of a range of building tasks along with reflections and written work on each piece
- **Assignments:** multiple individual written tasks incorporating research and analysis
- **Practical Tests:** students demonstrate abilities in efficient and effective programming during challenges

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## FOOD AND CULTURE

### Overview

#### Content

Students will explore a wide range of factors that influence food and culture. They will discover how the Indigenous people of Australia successfully lived off the land. Students will also explore how immigration and lifestyle changes over generations have shaped Australian cuisine. A global perspective is also examined when students research the cuisine of a chosen country. During both theory and practical classes, students will develop an understanding of different cooking techniques and ingredients.

#### Key Skills

On completion of this course students are able to:

- Investigate, analyse and select from a range of materials, components, tools, equipment and processes to develop design ideas
- Generate, develop, test and communicate design ideas, plans and processes for various audiences
- Effectively and safely use materials, tools and equipment
- Independently develop criteria for success to assess design ideas and processes
- Use organizational strategies when working individually and collaboratively

#### Assessment Tasks

- **Research Report:** a research report on a chosen country that highlights how that country's cuisine has been shaped
- **Project:** a project based on the design process
- **Bookwork:** an accurate and organized workbook
- **Production:** prepare sweet and savoury dishes using a wide range of skills and techniques

## FOOD FOR LIFE

### Overview

#### Content

Students will explore a wide range of topics including: health and nutrition, factors influencing food choices, healthy alternatives, ethical and sustainable food production, product development, marketing and reading food labels. They will consider the role that food plays in a social context and how it relates to every day life.

#### Key Skills

On completion of this course students are able to:

- Investigate, analyse and select from a range of materials, components, tools, equipment and processes to develop design ideas
- Generate, develop, test and communicate design ideas, plans and processes for various audiences
- Effectively and safely use materials, tools and equipment
- Independently develop criteria for success to assess design ideas and processes
- Use organizational strategies when working individually and collaboratively

#### Assessment Tasks

- **Research Report:** a research report on a relevant topic
- **Project:** a project based on the design process
- **Bookwork:** an accurate and organized workbook
- **Production:** prepare sweet and savoury dishes using a wide range of skills and techniques



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## Additional/General

### CREATIVE WRITING

#### Overview

##### Content

Students will examine writing as a craft, and explore the process by which good writing is produced. Students will build the specific skills required to write in a number of genres and forms. They will engage in the different steps involved in the writing process and learn to employ a variety of strategies to engage their target audience.

##### Key Skills

On completion of this course students are able to:

- Write in a range of styles, forms, and genres
- Use a range of literary devices
- Understand the important elements of narrative writing
- Develop an individual style and voice
- Use a range of software, including word processing programs, to create, edit and publish texts imaginatively

##### Assessment Tasks

- **Writing pieces:** a variety of writing pieces in different genres and forms
- **Writing Folio:** completion of various skills building activities and reflections
- **Written Presentation:** a published work using an elected software to a target audience

### ENVIRONMENTAL SCIENCE

#### Overview

##### Content

Our environment is currently facing serious challenges, from changing climates to habitat loss, environmental degradation, species extinction and overpopulation. In this subject, students will study patterns and processes in the natural world and their modification by human activity. Students will explore the science of current environmental issues and consider social and economic factors relating to these issues. Student will develop creative solutions to environmental issues and educate their community.

##### Key Skills:

On completion of this course students are able to:

- Describe physical, biological and chemical patterns and processes in the natural world
- Collect and evaluate scientific data relating to current environmental issues
- Understand social and economic factors relating to environmental issues
- Design creative solutions to environmental issues, to create a sustainable environment for all
- Educate their community on environmental issues and encourage sustainable living

##### Assessment tasks:

- **Field and Practical Work:** Collect and evaluate data
- **Research Projects:** Undertake research projects exploring the science of environmental issues
- **Design Projects:** Develop and design solutions to environmental issues

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## FORENSIC SCIENCE

### Overview

#### Content

Students will apply scientific knowledge and techniques to investigate aspects of forensic science. This will include the collection and examination of physical evidence and identifying victims. They will engage in a range of practical activities to analyse evidence to solve a murder case.

#### Key Skills

On completion of this course students are able to:

- Explain how science inquiry skills are used to investigate and evaluate evidence
- Formulate their own hypotheses and conduct investigations in order to prove or disprove them
- Distinguish between circumstantial forensics evidence and definitive evidence

#### Assessment Tasks

- **Projects:** two major research and investigation tasks
- **Practical Reports:** accurate results and analysis for experiments
- **Case Study:** investigation and problem solving task

## INVENT AND LEARN

### Overview

#### Content

In this unit, students will undertake a variety of design challenges, requiring creativity and innovative thinking. Exciting real world challenges and problems will be explored and students will create solutions using a variety of robotics, electronics, materials and programming. Invention and engineering will be crucial as students tinker with ideas and test prototypes.

#### Key Skills

On completion of this course students are able to:

- Develop and explore inquiry questions
- Conduct extensive research using a variety of sources
- Create models and 3D prototypes and presentations
- Apply problem solving skills

#### Assessment Tasks

- **Creative Design:** students work in groups to construct a project to suit a specific purpose
- **Design Solution:** using a range of equipment and materials (including electronics and computer programming software) students experiment to engineer a design solution
- **Project Management:** students undertake the design process to produce and evaluate an innovative solution to a set problem

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# SPORTS SCIENCE

## Overview

### Content

Students will gain insight into science as a human activity and the relationship between science, technology and sport. This will develop students understanding of the body systems and their functions in sporting activities as well as external factors that can influence sporting ability.

Students will investigate a range of the following concepts: body movement, biomechanics, careers in sport science, sports medicine and drugs in sport, sports psychology and the evolution of sporting equipment and clothing.

### Key Skills

On completion of this course students are able to:

- Explain the internal systems of the body that allow for active movement
- Evaluate their aerobic capacity in relation to their cardiovascular system and their fitness
- Utilise a range of technologies and experimental processes to analyse data
- Discuss the short and long term effects of natural and synthetic drugs in sport
- Evaluate scientific developments in sporting equipment and clothing to predict future designs and materials

### Assessment Tasks

- **Topic Tests:** written tests on key concepts studied in each topic
- **Practical Reports:** written report in correct experimental format
- **Projects:** major projects including research and analysis