



AMAROO SCHOOL

Year 10
Core Classes
Unit Outlines
Semester 2, 2023





Year 10 (Core Classes)

Semester 2, 2023

Unit Outlines

CORE SUBJECT

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Assessment Calendar

1. Click this link: [Assessment Calendar](#)
2. In the top left hand corner, type in your child's student number. Don't type 0s at the start of the student number.
3. The number will appear below. Click on it. ***Please ensure you've clicked on the number and the tick appears.***

 12345

Note: Don't type 0's at the start of your student ID

12345 ✓

4. The assessment calendar will then appear.

TERM 3

Assessment due dates shown below are a rough guide only. These dates are subject to change.

Subject Na...	Ongoing 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 8	Week 9	Week 10
English						Comparative Scene Analysis				Creative Response
Food Technology - Paddock To Plate										
Graphic Design - Marketing						Graphic Design Research			Success Criteria + Graphic Design Project	
Health and PE										Discrimination Task
Humanities and Social Science					Rights and Freedoms Essay					
Mathematics				Parabolas and Other Graphs Test			Trigonometry Assignment			Probability Test
Science						Motion Practical Report			Motion Test	



CORE SUBJECTS



English

English

Year 10

In Term 3, students will be exploring the relevance of Shakespeare's plays in today's society by examining various themes, characters and interpretations of the texts. Students will then have the ability to demonstrate their knowledge through a creative response. In Term 4, students will study a unit titled 'Texts of Social Criticism'. Students will explore aspects of society and humanity through a range of texts. Students will analyse and evaluate a range of texts that will allow them to question the world around them. They will create a persuasive article from a range of seen and unseen stimuli, investigate a text of their choice, and discuss their ideas and opinions with others.

Australian Curriculum Standards

The student:

- Explains how the choice of language features, images and vocabulary contributes to the development of individual style.
- Creates a wide range of texts to articulate complex ideas.
- Demonstrates understanding of grammar, varies vocabulary choices for impact, and accurately uses spelling and punctuation when creating and editing texts.
- Develops individual style by experimenting with language features, stylistic devices, text structures and images.
- Shows how the selection of language features can achieve precision and stylistic effect.
- Explains different viewpoints, attitudes and perspectives through the development of cohesive and logical arguments.

Assessment Items

Comparative Scene Analysis	Week 5
Creative Response	Week 10
Op-Ed/ Feature Article and Annotations	Week 15



Mathematics

Mathematics

Year 10

Students will cover the following content: algebra, number, probability, and measurement. To become proficient users of mathematics, students will study mathematics using the four proficiencies: understanding, fluency, reasoning and problem-solving.

During Semester 2:

Understanding includes finding unknowns in formulas after substitution, describing the relationship between graphs and equations, simplifying a range of algebraic expressions, and explaining the use of the trigonometric ratios for right-angle triangles. Fluency includes applying the formula of shapes to find the area and volume of basic shapes. Problem-solving includes calculating the surface area and volume of a diverse range of prisms to solve practical problems, finding unknown lengths and angles using applications of trigonometry, and investigating independence of events. Reasoning includes applying the rules of probability to explain the likelihood of an outcome occurring.

Students regularly use online resources in their mathematics class to complete classwork and/or homework. Students will have access to either Cambridge Go or Education Perfect where learning tasks will address the demands of the Australian Curriculum.

Australian Curriculum Standards

The student:

- Applies deductive reasoning to proofs and numerical exercises involving plane shapes
- Lists outcomes for multi-step chance experiments and assigns probabilities for these experiments
- Calculates relative frequencies to estimate probabilities, lists outcomes for two-step experiments and assigns probabilities for those outcomes
- Solves surface area and volume problems relating to composite solids
- Finds unknown values after substitution into formulas
- Applies problem-solving skills and mathematical techniques to solve problems
- Recognises the relationship between the unit circle and the trigonometric functions
- Solves trigonometric equations
- Uses trigonometry to calculate unknown values in both right-angled and non right-angled triangles
- Makes the connections between algebraic and graphical representations of polynomials
- Applies the factor and the remainder theorems to solve problems

Assessment Items

Parabolas and Other Graphs Test Test	Week 3
Trigonometry Assignment	Week 6
Probability Test	Week 10
Measurement Test	Week 15
Logarithms assessment	Week 7



Science

Science

Year 10

Science has three interrelated strands: Science Understanding, Science as a Human Endeavour, and Science Inquiry Skills. This semester students will focus on Physical Science and Earth and Space Sciences.

Australian Curriculum Standards

The student:

- Explains the concept of energy conservation and represents energy transfer and transformation within systems
- Applies relationships between force, mass and acceleration to predict changes in the motion of objects
- Describes and analyses interactions and cycles within and between Earth's spheres
- Evaluates the evidence for scientific theories that explain the origin of the universe and the diversity of life on Earth
- Explains the processes that underpin heredity and evolution
- Analyses how the models and theories used have developed over time and discusses the factors that prompted a review
- Develops questions and hypotheses and independently designs and improves appropriate methods of investigation, including field work and laboratory experimentation
- Explains how reliability, safety, fairness and ethical actions were considered in methods and identifies where digital technologies can be used to enhance the quality of data
- Identifies alternative explanations for findings when analysing data, selecting evidence and developing and justifying conclusions, and explains any sources of uncertainty
- Evaluates the validity and reliability of claims made in secondary sources with reference to currently held scientific views, the quality of the methodology and the evidence cited
- Constructs evidence-based arguments and selects appropriate representations and text types to communicate science ideas for specific purposes

Assessment Items

Motion Practical Report	Week 5
Motion Test	Week 9
Global Systems Response	Week 13
Astronomy Assessment Task	Week 15
Classwork	Ongoing/Formative



Humanities and Social Science

Humanities

Year 10

In Semester Two, Year 10 students are introduced to the topic of Human Rights and Freedoms. In this unit students will engage with content following on from the aftermath of World War Two, such as, The Nuremberg Trials, the founding of the United Nations, and the laying down of the Universal Declaration of Human Rights. Using this context students are asked to examine the events of the Stolen Generations, The American and The Australian Civil Rights Movement. The students produce essays that argue the role that individuals and government play in the ongoing fight for rights and freedoms of the past and present. Semester Two includes a Geography unit that introduces students to the concepts of human wellbeing and environmental management. Students will be asked to examine the factors that contribute to the high standard of living in Australia and compare and contrast those factors to a developing nation in an effort to understand the impact, economy, infrastructure, and environment have on human development. Students will present their findings in a portfolio style report. Finally, Semester Two asks students to investigate the impact that Popular Culture has on their world. Students will achieve this by examining the long and short term impacts that film, television, music, digital media, and social media have on the changing nature of society, and present their findings in a creative response of their choosing.

Australian Curriculum Standards

The student:

- Refers to key events, the actions of individuals and groups, and beliefs and values to explain patterns of change and continuity over time
- Explains the significance of events and developments from a range of perspectives
- Processes, analyses and synthesise information from a range of primary and secondary sources and uses it as evidence to answer inquiry questions
- Develops and justifies own interpretations about the past
- Develops texts that organise and present arguments, using historical terms and concepts, evidence identified in sources, and can reference these sources
- Evaluates alternative views on a geographical challenge and alternative strategies to address this challenge using environmental, economic, political and social criteria
- Analyses and synthesises data and other information to draw reasoned conclusions, taking into account alternative perspectives
- Presents findings, arguments and explanations using relevant geographical terminology and graphic representations and digital technologies in a range of selected and appropriate communication forms
- Evaluates findings and proposes action in response to a contemporary geographical challenge, taking account of environmental, economic, political and social considerations

Assessment Items

Rights and Freedoms Essay	Week 4
Human Wellbeing Geography Report	Week 12
Pop Culture Creative Response	Week 15



Health and Physical Education

Health and Physical Education

Year 10

This semester, students will have the opportunity to analyse health situations in relation to relationships and sexuality. Students will do this by exploring consent, power and diversity. Throughout their practical units, students will develop skills in various sports including; basketball, gridiron, hockey and touch football. They will be able to develop their teamwork and collaboration skills across both practical and health contexts.

Australian Curriculum Standards

The student:

- Critically analyses contextual factors that influence identities, relationships, decisions and behaviours
- Analyses the impact attitudes and beliefs about diversity have on community connection and wellbeing
- Accesses, synthesises and applies health information from credible sources to propose and justifies responses to health situations
- Demonstrates leadership, fair play and cooperation across a range of movement and health contexts
- Applies criteria to make judgements about and refine own and others' specialised movement skills and movement performances
- Works collaboratively to design and apply solutions to movement challenges

Assessment Items

Health Classwork	Ongoing/Formative
Discrimination Task	Week 10
Key Sport Skills and Practical Reflections	Ongoing/Formative



PEARLS - Health and Physical Education

Health and Physical Education Year 9 and 10

The PEARLS (Promoting Empowerment, Achievement, Resilience, Leadership and Support) program is designed to empower young women to become confident, strong and resilient members of the community. This semester in targeted health sessions, students will investigate how to support their personal wellbeing with a focus on mindfulness and lifelong physical activity.

Throughout practical units, students will examine sports specific skills, work cooperatively to develop game strategies and reflect on performance to improve. Students will learn to apply specialised movement skills and explore movement concepts and strategies whilst participating in a range of physical activities elected by the class. They will also have opportunities to refine and consolidate personal and social skills in demonstrating leadership, teamwork and collaboration. PEARLS will also be coordinating the "It's in the Bag" campaign for Share the Dignity.

Australian Curriculum Standards

The student:

- Critically analyses contextual factors that influence identities, relationships, decisions and behaviours
- Analyses the impact attitudes and beliefs about diversity have on community connection and wellbeing
- Applies decision-making and problem-solving skills when taking action to enhance own and others' health, safety and wellbeing
- Applies and transfers movement concepts and strategies to new and challenging movement situations
- Applies criteria to make judgements about and refine own and others' specialised movement skills and movement performances
- Works collaboratively to design and apply solutions to movement challenges
- Demonstrates leadership, fair play and cooperation across a range of movement and health contexts

Assessment Items

Health Classwork	Ongoing/Formative
Key Sport Skills and Practical Reflections	Ongoing/Formative