

2017 CURRICULUM OVERVIEW - YEAR 5

Term 1

English

Examining literary texts - fantasy novel

Students interpret a novel from the fantasy genre showing understanding of character development in relation to plot and setting. They demonstrate the ability to analyse the development of a main character through a written response.

Creating fantasy characters

Students continue to read and interpret a novel from the fantasy genre showing understanding of character development. In role as the author, they deliver a spoken presentation to explain the text structures and language features used to create one 'good' character and one 'evil' character.

Core priorities such as reading, spelling and grammar form an integral part of the literacy learning in every classroom. Students participate in reading groups, spelling and grammar lessons each week.

Mathematics

Students have the opportunity to develop understandings of:

- Number and place value — explore and identify factors and multiples; revise multiplication and division facts; explore mental computation strategies for multiplication and division; solve problems using mental computation strategies and informal recording methods.
- Chance — identify and describe possible outcomes; describe equally likely outcomes and represent probabilities of outcomes using fractions; conduct a chance experiment.
- Fractions and decimals — compare and order unit fractions; create a range of models for fractions; add and subtract fractions with the same denominator; explore hundredths; represent fractions on number lines.
- Data representation and interpretation — identify different types of data; distinguish between numerical and categorical data; collect primary data; organise data using tables; create and interpret dot plots and column; identify and pose questions to collect different data types, use technology to create representations.
- Using units of measurement — read and represent 24-hour time, measure dimensions, estimate and measure the perimeters of rectangles, estimate and calculate area of rectangles.

Science – Our place in the solar system

Students will describe the key features of our solar system including planets and stars. They will discuss scientific developments that have affected peoples' lives and describe details of contributions to our knowledge of the solar system from a range of people. Students will visit the Planetarium as part of this unit.

History – Exploring the development of British colonies in Australia *(Over two terms)*

In this unit, students investigate how an Australian colony developed over time and why. They explore how colonial settlement changed the environment and what do we know about the lives of people in Australia's colonial past and how we know.

Geography - Exploring how people and places affect one another *(Over two terms)*

In this unit, students extend their mental map of the world with a focus on Europe and North America. Students learn to identify and describe the relative location of places and explore the human and environmental factors that influence the characteristics of places.

Term 2

English

Examining media texts

In this unit, students interpret a range of news articles and reports from journals and newspapers to respond to viewpoints portrayed in media texts.

Students apply comprehension strategies, focusing on particular viewpoints portrayed in a range of media texts. They create a digital multimodal feature article, including written and visual elements, from a particular viewpoint.

Examining characters in animated film

In this unit students listen to, read, view and interpret a range of animations including film and digital texts. Students present a point of view about personal conflict and ethical dilemmas faced by fantasy characters through a panel discussion. They produce an animated story exploring a character's behaviour when faced with an ethical dilemma.

Mathematics

Students have the opportunity to develop understandings of:

- Number and place value — solve problems using mental computation strategies and informal recording methods; compare and evaluate strategies that are appropriate to different problems and explore and identify factors and multiples; apply estimation and rounding to estimate answers and check answers; apply mental computation to multiply and divide; solve multiplication and division problems with no remainders.
- Fractions and decimals — make connections between fractional numbers and the place value system; represent, compare and order decimals.
- Location and transformation — investigate and create reflection, translation and rotation symmetry; transform shapes through enlargement and describe the feature of transformed shapes.
- Shape — apply the properties of 3D objects to make connections with a variety of two-dimensional representations of 3D objects.
- Geometric reasoning – identify the components of angles; compare and estimate the size of angles; construct and measure angles.
- Location and transformation and shape – describe and create transformations using symmetry; represent 3D objects with 2D representations.
- Patterns and algebra – create and continue patterns involving whole numbers, fractions and decimals.
- Data representation and interpretation – explore methods of data representations to construct and interpret data displays.

Science – Survival in the Australian environment

Students will examine the structural features and behavioural adaptations that assist living things to survive in their environment. Students will understand that science involves using evidence and data to develop explanations. Student will investigate factors that influence how plants and animals survive in extreme environments. This knowledge will be used to create a creature with adaptations that are suitable for survival in a prescribed environment.

History – Exploring the development of British colonies in Australia *(Over two terms)*

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Geography - Exploring how people and places affect one another *(Over two terms)*

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Term 3

English

Appreciating poetry

Students investigate a range of poetry, songs, anthems and odes from different times, to create a folio of responses analysing authors' use of language and its impact on the message and ideas of text.

Responding to poetry

Students listen to, read and view a range of poetry, including narrative poems, to create a transformation of a narrative poem to a narrative.

Mathematics

Students have the opportunity to develop understandings of:

- Number and place value — round and estimate to check an answer is reasonable; use written strategies to add and subtract; use an array to multiply one and two-digit numbers; multiplies whole numbers and divides by a one-digit whole number with and without remainders; solve problems involving computation and apply computation to money problems.
- Money and financial mathematics — investigate income and expenditure; calculate costs; investigate savings and spending plans; develop and explain simple financial plans.
- Location and transformation — explore mapping conventions; use alphanumeric grids to locate landmarks and plot points; create symmetrical designs and enlarge shapes.
- Using units of measurement — chooses appropriate units for length, area, capacity and mass; measures length, area, capacity and mass; finds perimeter; problem solves and reasons when applying measurement to answer a question.
- Fractions and decimals — makes connections between fractions and decimals; compares and orders decimals.
- Patterns and algebra — creates, continues and identifies the rule for patterns involving the addition and subtraction of fractions; use number sentences to find unknown quantities involving multiplication and division.

Science – Now you see it

Students will investigate the properties of light and the formation of shadows. They will investigate reflection angles, how refraction affects our perceptions of an object's location, how filters absorb light and affect how we perceive the colour of objects; and the relationship between light source distance and shadow height.

History - Investigating the colonial period in Australia (Over two terms)

In this unit, students investigate what the significant events were and who the significant people were that shaped Australian colonies. They also explore what we know about the lives of people in Australia's colonial past and how we know. Students participate in an excursion with the Brisbane Urban Environmental Education Centre.

Geography – Exploring how places are changed and managed by people (Over two terms)

In this unit, students learn how people influence the human characteristics of places and the management of spaces within them. They investigate ways to reduce the impact of natural hazards on people and places.

Term 4

English

Exploring narrative through novels and film

Students listen to, read and view films and novels with a range of characters involving flashbacks or shifts in time.

Reviewing narrative film

Students listen to and view narrative films, and spoken, written and digital film reviews, to create a written film review of a chosen film.

Mathematics

Students have the opportunity to develop understandings of:

- Number and place value — apply mental and written strategies to solve addition, subtraction, multiplication and division problems; identify and use factors and multiples; solve problems involving addition subtraction multiplication and division; use efficient mental and written strategies to solve problems.
- Chance — order chance events; express probability on a numerical continuum; apply probability to games of chance; make predictions in chance experiments.
- Data representation and interpretation — investigate an issue (design data collection questions and tools, collect data, represent as a column graph or dot plot, interpret and describe data to draw a conclusion).
- Using units of measurement — read and represent 24-hour time; convert between 12- and 24-hour times.

- Money and financial decisions — create simple budgets; calculate with money; identify the GST component of invoices and receipts; make financial decisions.
- Geometric reasoning — estimate and measure angles; construct angles using a protractor.
- Location and transformation — explore maps and grids.
- Fractions and decimals — compare order and represent decimals; locate decimals on a number line; extend the number system to thousandths and beyond.

Science – Matter matters

Students will broaden their classification of matter to include gases and begin to see how matter structures the world around them. They will understand that solids, liquids and gases have some shared and some distinct observable properties and can behave in different ways.

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