Prep Mathematics

Achievement

By the end of Foundation Year, students make connections between number names, numerals and position in the sequence of numbers from zero to at least 20. They use subitising and counting strategies to quantify collections. Students compare the size of collections to at least 20. They partition and combine collections up to 10 in different ways, representing these with numbers. Students represent practical situations that involve quantifying, equal sharing, adding to and taking away from collections to at least 10. They copy and continue repeating patterns.

Students identify the attributes of mass, capacity, length and duration, and use direct comparison strategies to compare objects and events. They sequence and connect familiar events to the time of day. Students name, create and sort familiar shapes and give their reasoning. They describe the position and the location of themselves and objects in relation to other objects and people within a familiar space.

Students collect, sort and compare data in response to questions in familiar contexts.
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Assessable Elements

An overall level of achievement in this subject is determined by the teacher's on-balance judgment of the evidence presented in students' summative assessment across the following:

- Fluency
- Problem Solving
- Reasoning
- Understanding

Delivery (mode, time requirements, lessons)

Under the guidance of the Home Tutor, students complete the sequence of lessons within each of the four Mathematics Units. Work returns, including Assessment Tasks, are submitted via QLearn in accordance with the Work Rate Calendar. Course materials can be accessed via the Learning Management System.
Students have access to a scheduled Prep lesson each week. This lesson will include explorations of selected concepts within the Mathematics units.

Student Requirements

Computer, internet access, email, printer, scanner, headset with microphone, stationery, resource list and SRS list.

<table>
<tr><th colspan="3">Units, Learning Experiences and Summative Assessment</th></tr>
<tr><td rowspan="3">Semester 1</td><td rowspan="2">Term 1</td><td>Unit 1
Students will develop early number skills by counting, matching, comparing, and representing numbers to ten, exploring concepts like zero, ordinal numbers to fifth, dot patterns, and equal groups. They will also build understanding of position, size, and time through activities involving positional language, measurement comparisons, days of the week, and recognising day and night.</td></tr>
<tr><td>Summative Assessment:
• Students will demonstrate their knowledge and understanding through a combination of hands-on investigations and tests throughout the term.</td></tr>
<tr><td>Term 2</td><td>Unit 2
Students will extend their number knowledge by counting to 20, using ten frames, combining groups, exploring numbers before, after, and in between, and partitioning numbers up to ten. They will also investigate shapes, sort and compare objects by length, sequence events in time, and collect and interpret simple data through hands-on activities like hopscotch and daily event sequencing.</td></tr>
<tr><td></td><td></td><td>Summative Assessment:
• Students will demonstrate their knowledge and understanding through a combination of hands-on investigations and tests throughout the term.</td></tr>
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Semester 2	**Term 3**	**Unit 3** Students will explore addition and subtraction through hands-on modelling, stories, and ten frames, while building number knowledge to 20 and working with missing numbers and data displays. They will also investigate patterns, mass, and capacity, using everyday experiences to compare, order, and describe objects and collections.
		Summative Assessment: • **Students will demonstrate their knowledge and understanding through a combination of hands-on investigations and tests throughout the term.**
	Term 4	**Unit 4** Students will strengthen their addition, subtraction, and sharing skills by counting on, making equal groups, finding missing numbers, and solving real-world problems with money and shopping activities. They will also extend their number knowledge to 30, work with ordinal numbers, collect and interpret data, and sequence events through hands-on investigations and maths games.
		Summative Assessment: • Students will demonstrate their knowledge and understanding through a combination of hands-on investigations and tests throughout the term.

Disclaimer All of the above information is accurate at the time of development.