

Pre-primary year Syllabus

Year Level Description

The proficiency strands **understanding, fluency, problem-solving** and **reasoning** are an integral part of mathematics content across the three content strands: number and algebra, measurement and geometry, and statistics and probability. The proficiencies reinforce the significance of working mathematically within the content and describe how the content is explored or developed. They provide the language to build in the developmental aspects of the learning of mathematics. The achievement standards reflect the content and encompass the proficiencies.

At this year level:

- **understanding** includes connecting names, numerals and quantities
- **fluency** includes readily counting numbers in sequences, continuing patterns and comparing the lengths of objects
- **problem-solving** includes using materials to model authentic problems, sorting objects, using familiar counting sequences to solve unfamiliar problems and discussing the reasonableness of the answer
- **reasoning** includes explaining comparisons of quantities, creating patterns and explaining processes for indirect comparison of length

Number and algebra

NUMBER AND PLACE VALUE

Measurement and Geometry

USING UNITS OF MEASUREMENT

Statistics and Probability

DATA REPRESENTATION AND INTERPRETATION

Establish understanding of the language and processes of counting by naming numbers in sequences, initially to and from 20, moving from any starting point ([ACMNA001](#))

 Literacy

 Numeracy

Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond ([ACMNA002](#))

 Literacy

 Numeracy

Subitise small collections of objects ([ACMNA003](#))


 Numeracy

Compare, order and make correspondences between collections,

Use direct and indirect comparisons to decide which is longer, heavier or holds more, and explain reasoning in everyday language ([ACMMG006](#))

 Literacy

 Numeracy

 Critical and creative thinking


Compare and order duration of events using everyday language of time ([ACMMG007](#))

 Literacy

 Numeracy

Connect days of the week to familiar events and actions ([ACMMG008](#))

 Numeracy

 Critical and creative thinking

SHAPE


Answer yes/no questions to collect information and make simple inferences ([ACMSP011](#))

 Numeracy

initially to 20, and explain reasoning
[\(ACMNA289\)](#)

 Literacy

 Numeracy

 Critical and creative thinking

Represent practical situations to model addition and sharing
[\(ACMNA004\)](#)


 Numeracy

PATTERNS AND ALGEBRA

Sort and classify familiar objects and explain the basis for these classifications. Copy, continue and create patterns with objects and drawings
[\(ACMNA005\)](#)

 Literacy

 Numeracy

 Critical and creative thinking

Sort, describe and name familiar two-dimensional shapes and three-dimensional objects in the environment
[\(ACMMG009\)](#)

 Literacy

 Numeracy

LOCATION AND TRANSFORMATION

Describe position and movement
[\(ACMMG010\)](#)

 Literacy

 Numeracy

Pre-primary Achievement Standard

Number and Algebra

At Standard, students count to and from 20 and order small collections. They make connections between number names, numerals and quantities up to 10.

Measurement and Geometry

Students compare objects using mass, length and capacity. They explain the order and duration of events. Students connect events and the days of the week. They group objects based on common characteristics and sort shapes and objects. Students use appropriate language to describe location.

Statistics and Probability

Students answer simple questions to collect information and make simple inferences.

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