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School Curriculum
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Kindergarten to Year 10

Years 11 and 12

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Year 5 SyllabusTest

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Year Level Description

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- Year level descriptors
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Year Levels

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Strands

- Select All
- Statistics and Probability
- Measurement and Geometry
- Number and Algebra

General Capabilities

- Select All
- Literacy
- Numeracy
- Information and Communication Technology (ICT) capability

Year 5 Syllabus

Year Level Descriptions

The proficiency strands of **number and algebra**, **measurement and geometry**, **statistics and probability** and **reasoning** are an integral part of the mathematics curriculum. The proficiency strands provide the language and context for the mathematics. The proficiency strands provide the language and context for the mathematics. The proficiency strands provide the language and context for the mathematics.

At this year level:

- **understanding** includes understanding numbers, using fractions and decimals, transformations and measurement
- **fluency** includes perimeter and area calculations and measurement
- **problem-solving** includes whole numbers and measurement
- **reasoning** includes continuing patterns, chance experiments and interpreting data

- ✔ Critical and creative thinking
 - ✔ Personal and social capability
 - ✔ Ethical understanding
 - ✔ Intercultural understanding
-
-


Number and Algebra

NUMBER AND PLACE VALUE

Identify and describe factors and multiples of whole numbers and use them to solve problems [\(ACMNA098\)](#)

 Literacy

 Numeracy

 Critical and creative thinking

Use estimation and rounding to check the reasonableness of answers to calculations [\(ACMNA099\)](#)


 Numeracy


Solve problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental, written strategies and

appropriate digital technologies
([ACMNA100](#))

 Literacy

 Numeracy


 Information and Communication Technr
(ICT) capability

 Critical and creativ
thinking

Solve problems involving
division by a one di
number, including t
that result in a
remainder ([ACMNA](#)

 Literacy


 Numeracy

 Critical and creativ
thinking

Use efficient menta
written strategies a
apply appropriate c
technologies to solv
problems ([ACMNA2](#)

 Literacy

 Numeracy

 Critical and creative thinking

FRACTIONS AND DECIMALS


Compare and order fractions with a common unit fraction and locate and represent them on a number line
[\(ACMNA102\)](#)

 Numeracy

Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator
[\(ACMNA103\)](#)

 Literacy

 Numeracy

 Critical and creative thinking

Recognise that the base ten value system can be extended beyond hundredths
[\(ACMNA104\)](#)

 Numeracy

Compare, order and represent decimals
([ACMNA105](#))


 Numeracy

MONEY AND FINANCIAL MATHEMATICS

Create simple financial plans ([ACMNA106](#))

 Literacy

 Numeracy


 Critical and creative thinking

PATTERNS AND ALGEBRA

Describe, continue and create patterns with fractions, decimals and whole numbers resulting from addition and subtraction ([ACMNA107](#))

 Literacy

 Numeracy

 Critical and creative thinking

Find unknown quantities in number sentences involving multiplication and division and identify equivalent number sentences involving multiplication and division ([ACMNA12](#)).

 Numeracy

Year 5 Achievement

Number and Algebra

At Standard, students solve problems involving the reasonableness and unit fractions and fractions with the same denominator. Students continue to identify and explain operations involving the four operations.

Measurement and Geometry

Students use appropriate units to measure length and mass, and calculate area and 24-hour time. Students

dimensional representations and identify shapes and identify the coordinate system to locate lattice points.

Statistics and Probability

Students interpret data from a probability distribution with equally likely categories and pose questions to generate data.

The proficiency strands **understanding, fluency, problem-solving** are applied to content across the three content strands: number and algebra, geometry, and statistics and probability. These proficiencies reinforce the significance of working mathematically and are developed. They provide the language to build in the development of mathematical proficiency. The achievement standards reflect the content and encompass the proficiencies.

At this year level:

- **understanding** includes making connections between representations, comparing and ordering fractions and decimals and representing data, identifying line and rotational symmetry
- **fluency** includes choosing appropriate units of measurement, estimating the reasonableness of answers to calculations and using instruments
- **problem-solving** includes formulating and solving authentic problems, creating financial plans
- **reasoning** includes investigating strategies to perform calculations with decimals, interpreting results of chance experiments, posing and solving problems with data sets.

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