

Mathematics Curriculum Overview - Stage 2

The new syllabus structure illustrates the important role Working Mathematically plays across all areas of mathematics and reflects the strengthened connections between concepts. Working mathematically has been embedded in the outcomes, content and examples of the syllabus. The focus areas build on the foundational skills developed in K-2, deepening and enriching learning.

Mathematics K-10 outcomes and their related content are organised in:

- Number and algebra
- Measurement and space
- Statistics and probability

NUMBER & ALGEBRA

Representing Numbers Using Place Value

Focuses On: applying an understanding of place value and the role of zero to represent numbers to at least tens of thousands

and representing and comparing decimals up to 2 decimal places using place value

Additive Relations

Focuses On: selecting and using mental and written strategies for addition and subtraction involving 2- and 3-digit numbers

and completing number sentences involving addition and subtraction by finding missing values

Multiplicative Relations

Focuses On: representing and using the structure of multiplicative relations to 10×10 to solve problems

and completing number sentences involving multiplication and division by finding missing values

Partitioned Fractions

Focuses On: representing and comparing halves, quarters, thirds and fifths as lengths on a number line and their related fractions formed by halving (eighths, sixths and tenths)

MEASUREMENT & SPACE

Geometric Measure

Focuses On: using grid maps and directional language to locate positions and follow routes
and measuring and estimating lengths in metres, centimetres and millimetres
and identifying angles and classifying them by comparing to a right angle

2D Spatial Structure

Focuses On: comparing two-dimensional shapes and describing their features
and performing transformations by combining and splitting two-dimensional shapes
and estimating, measuring and comparing areas using square centimetres and square metres

3D Spatial Structure

Focuses On: making and sketching models and nets of three-dimensional objects including prisms and pyramids
and estimating, measuring and comparing capacities (internal volumes) using litres, millilitres and volumes using cubic centimetres

Non-spatial Measure

Focuses On: estimating, measuring and comparing the masses of objects using kilograms and grams
and representing and interpreting analog and digital time in hours, minutes and seconds

STATISTICS & PROBABILITY

Data

Focuses On: collecting discrete data and constructing graphs using a given scale and interpreting data in tables, dot plots and column graphs

Chance

Focuses On: recording and comparing the results of chance experiments

All information from NSW Education Standards Authority: <https://curriculum.nsw.edu.au/learning-areas/mathematics/mathematics-k-10-2022/overview>