The NSW Education Standards Authority (NESA) syllabus - Mathematics

The NSW Education Standards Authority (NESA) has redeveloped the Mathematics syllabus. The new syllabus is to be taught in Years 3 to 10 from 2024.

It seems like a big change, but your school's mathematics program likely won't need to change substantially to meet the new outcomes.

Key changes to the syllabus:

- One working mathematically statement that outlines the proficiencies to be integrated across all stages and outcomes.

- A focus on making connections across concepts, which may include integration of learning across different strands, sub-strands or outcomes.

- The separation of fractions into two focus areas:
  - Partitioned fractions (Stage 2)
  - Representing quantity fractions (Stage 3).

- The separation of whole number into two focus areas:
  - Representing numbers using place value (Stage 2)
  - Representing numbers (Stage 3).

- The embedding of decimals and percentages in:
  - Representing numbers using place value (Stage 2)
  - Representing numbers (Stage 3).

- A greater emphasis on the structure of place value.

- Stronger connections between shape, transformations and areas.

- Consistent representations of mathematical models and structures across focus areas.

- The embedding of patterns and algebra in additive and multiplicative relations and in two-dimensional spatial structure.

- Sub-strand changes (see next page for comprehensive table)

Mathletics NSW Scope and Sequence

In anticipation of the new NSW syllabus, Mathletics has been inventoried and aligned to the new syllabus.

We have created Scope and Sequence documents based on the NSW Department of Education's "Big Ideas to Start Strong". These documents include learning sequences that allow for the integration and connection of concepts. Each learning sequence is related back to the NSW outcomes as well as the big idea.

Teachers can use the Mathletics NSW Scope and Sequence as provided or they can use the outcome mapping pages to create their own learning sequences. The related content in Mathletics is shown alongside each learning sequence. The flexible nature of this approach allows teachers to choose the most relevant content for the needs of their students and to align with their school maths program.

We know a new syllabus can be daunting, but Mathletics is here to help the transition go as smoothly as possible. With Mathletics, you can maintain the high level of teaching and learning we know you want to provide for your students.

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Sub-strand changes:

NSW Mathematics K–10 Syllabus (2012)	NEW NSW Mathematics K–10 Syllabus			
	Early Stage	**Stage 1**	**Stage 2**	**Stage 3**
Number and Algebra	**Number and Algebra**	**Number and Algebra**	**Number and Algebra**	**Number and Algebra**
Whole numbers	Representing whole numbers	Representing whole numbers A & B	Representing numbers using place value A & B	Representing numbers
Addition and subtraction	Combining and separating quantities	Combining and separating quantities A & B	Additive relations A & B	Additive relations
Multiplication and division	Forming groups	Forming groups A & B	Multiplicative relations A & B	Multiplicative relations
Patterns and Algebra	Representing whole numbers	Forming groups, RWN A & B	Multiplicative relations A & B	Multiplicative relations
Fractions and Decimals	n/a	Forming groups	Partitioned fractions RWNB A & B (decimals)	Representing quantity fractions RWN A & B (decimals & %)
Measurement and Geometry	**Measurement and Space**	**Measurement and Space**	**Measurement and Space**	**Measurement and Space**
Position	Geometric measure	Geometric measure: A & B Position	Geometric measure A & B: Position	Geometric measure A & B: Position
Length	Geometric measure	Geometric measure: A & B Length	Geometric measure A & B: Length	Geometric measure A & B: Length
Angles	n/a	n/a	Geometric measure A & B: Angle	Geometric measure A & B: Angle
Two-dimensional space	Two-dimensional spatial structure	Two-dimensional spatial structure A & B: 2D Shapes	Two-dimensional spatial structure A & B: 2D Shapes	Geometric measure A & B: Angle
Area	Two-dimensional spatial structure	Two-dimensional spatial structure A & B: Area	Two-dimensional spatial structure A & B: Area	Two-dimensional spatial structure A & B: Area
Three-dimensional space	Three-dimensional spatial structure	Three-dimensional spatial structure A & B: 3D Objects	Three-dimensional spatial structure A & B: 3D Objects	Three-dimensional spatial structure A & B: 3D Objects
Volume and capacity	Three-dimensional spatial structure	Three-dimensional spatial structure A & B: Volume	Three-dimensional spatial structure A & B: Volume	Three-dimensional spatial structure A & B: Volume
Mass	Non-spatial measure	Non-spatial measure A & B: Mass	Non-spatial measure A & B: Mass	Non-spatial measure A & B: Mass
Time	Non-spatial measure	Non-spatial measure A & B: Time	Non-spatial measure A & B: Time	Non-spatial measure A & B: Time
Statistics and Probability	**Statistics and Probability**	**Statistics and Probability**	**Statistics and Probability**	**Statistics and Probability**
Data	Data	Data	Data	Data
Chance	n/a	Chance	Chance	Chance