# Stage 3 mathematics sample scope and sequence

The scope and sequence includes the strand, substrand and outcomes for each term.

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## Semester 1

Students develop understanding and fluency in mathematics through inquiry, exploring and connecting mathematical concepts, choosing and applying problem-solving skills and mathematical techniques, communication and reasoning. The five inter-related components of Working mathematically are communicating, problem-solving, reasoning, understanding and fluency. These components describe how content is explored or developed – the thinking and doing of mathematics.

### Working mathematically

Working mathematically has a separate set of outcomes for the components Communicating, Problem solving and Reasoning. Understanding and Fluency components do not have an outcome. These components are embedded in the development of knowledge, skills and understanding.

Working mathematically outcomes: MA3-1WM, MA3-2WM, MA3-3WM

### Early Term 1

|  |  |  |
| --- | --- | --- |
| Strand | Substrand focus | Outcomes |
| Number and algebra | Whole numbers, addition and subtraction, multiplication and division, fractions and decimals, patterns and algebra | MA3-1WM, MA3-2WM, MA3-3WM, MA3-4NA, MA3-5NA, MA3-6NA, MA3-7NA, MA3-8NA |
| Measurement and geometry | Length, three-dimensional space, angles | MA3-1WM, MA3-2WM, MA3-3WM, MA3-9MG, MA3-14MG, MA3-16MG |
| Statistics and probability | Data | MA3-1WM, MA3-2WM, MA3-3WM, MA3-18SP |

### Later Term 1

|  |  |  |
| --- | --- | --- |
| Strand | Substrand focus | Outcomes |
| Number and algebra | Whole numbers, addition and subtraction, multiplication and division, fractions and decimals | MA3-1WM, MA3-2WM, MA3-3WM, MA3-4NA, MA3-5NA, MA3-6NA, MA3-7NA |
| Measurement and geometry | Area, time, two-dimensional space, position | MA3-1WM, MA3-2WM, MA3-3WM, MA3-10MG, MA3-13MG, MA3-15MG, MA3-17MG |
| Statistics and probability | Data | MA3-1WM, MA3-2WM, MA3-3WM, MA3-18SP |

### Early Term 2

|  |  |  |
| --- | --- | --- |
| Strand | Substrand focus | Outcomes |
| Number and algebra | Addition and subtraction, multiplication and division, fractions and decimals, patterns and algebra | MA3-1WM, MA3-2WM, MA3-3WM, MA3-5NA, MA3-6NA, MA3-7NA, MA3-8NA |
| Measurement and geometry | Length, volume and capacity, three-dimensional, two-dimensional space | MA3-1WM, MA3-2WM, MA3-3WM, MA3-9MG, MA3-11MG, MA3-14MG, MA3-15MG |

### Later Term 2

|  |  |  |
| --- | --- | --- |
| Strand | Substrand focus | Outcomes |
| Number and Algebra | Whole numbers, addition and subtraction, multiplication and division, fractions and decimals | MA3-1WM, MA3-2WM, MA3-3WM, MA3-4NA, MA3-5NA, MA3-6NA, MA3-7NA |
| Measurement and Geometry | Mass, two-dimensional space, angles | MA3-1WM, MA3-2WM, MA3-3WM, MA3-12MG, MA3-15MG, MA3-16MG |
| Statistics and Probability | Data, chance | MA3-1WM, MA3-2WM, MA3-3WM, MA3-18SP, MA3-19SP |

## Semester 2

Students develop understanding and fluency in mathematics through inquiry, exploring and connecting mathematical concepts, choosing and applying problem-solving skills and mathematical techniques, communication and reasoning. The five inter-related components of Working mathematically are communicating, problem-solving, reasoning, understanding and fluency. These components describe how content is explored or developed – the thinking and doing of mathematics.

### Working mathematically

Working mathematically has a separate set of outcomes for the components Communicating, Problem solving and Reasoning. Understanding and Fluency components do not have an outcome. These components are embedded in the development of knowledge, skills and understanding.

Working mathematically outcomes: MA3-1WM, MA3-2WM, MA3-3WM

### Early Term 3

|  |  |  |
| --- | --- | --- |
| Strand | Substrand focus | Outcomes |
| Number and algebra | Whole numbers, addition and subtraction, multiplication and division, fractions and decimals, patterns and algebra | MA3-1WM, MA3-2WM, MA3-3WM, MA3-4NA, MA3-5NA, MA3-6NA, MA3-7NA, MA3-8NA |
| Measurement and geometry | Length, time, two-dimensional space, angles | MA3-1WM, MA3-2WM, MA3-3WM, MA3-9MG, MA3-13MG, MA3-15MG, MA3-16MG |
| Statistics and probability | Chance | MA3-1WM, MA3-2WM, MA3-3WM, MA3-19SP |

### Later Term 3

|  |  |  |
| --- | --- | --- |
| Strand | Substrand focus | Outcomes |
| Number and algebra | Addition and subtraction, multiplication and division, fractions and decimals, patterns and algebra | MA3-1WM, MA3-2WM, MA3-3WM, MA3-5NA, MA3-6NA, MA3-7NA, MA3-8NA |
| Measurement and geometry | Area, position | MA3-1WM, MA3-2WM, MA3-3WM, MA3-10MG, MA3-17MG |
| Statistics and probability | Data | MA3-1WM, MA3-2WM, MA3-3WM, MA3-18SP |

### Early Term 4

|  |  |  |
| --- | --- | --- |
| Strand | Substrand focus | Outcomes |
| Number and algebra | Whole numbers, multiplication and division, fractions and decimals | MA3-1WM, MA3-2WM, MA3-3WM, MA3-4NA, MA3-6NA, MA2-7NA |
| Measurement and geometry | Volume and capacity, time, three-dimensional space | MA3-1WM, MA3-2WM, MA3-3WM, MA3-11MG, MA3-13MG, MA3-14MG |
| Statistics and probability | Data, chance | MA3-1WM, MA3-2WM, MA3-3WM, MA3-18SP, MA3-19SP |

### Later Term 4

|  |  |  |
| --- | --- | --- |
| Strand | Substrand focus | Outcomes |
| Number and algebra | Addition and subtraction, multiplication and division, fractions and decimals, patterns and algebra | MA3-1WM, MA3-2WM, MA3-3WM, MA3-5NA, MA3-6NA, MA3-7NA, MA3-8NA |
| Measurement and geometry | Mass, two-dimensional space, angles | MA3-1WM, MA3-2WM, MA3-3WM, MA3-12MG, MA3-15MG, MA3-16MG |