

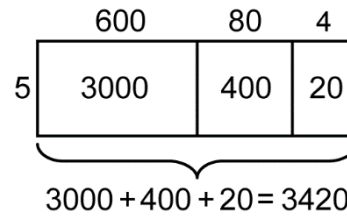
| Term | Week | Content Area / Units | Outcomes | Assessment |
|------|---------|--|---|---|
| 1 | 1 and 2 | Assessment | SENA 1 – Recording Sheet SENA 1 – Resources/Activities SENA 3 – Recording Sheet SENA 3 – Resources/Activities SENA 2 – Recording Sheet SENA 2 – Resources/Activities SENA 4 – Recording Sheet SENA 4 – Resources/Activities For required prior knowledge refer back to Stage 2 Year 4 outcomes | SENA Test class |
| | 3 and 4 | Whole Number (1) Data (1) | <p>MA3-4NA – Orders, reads and represents integers of any size and describes properties of whole numbers</p> <ul style="list-style-type: none"> Recognise, represent and order numbers to at least tens of millions <ul style="list-style-type: none"> Applies an understanding of place value and the role of zero to read and write numbers of any size States the place value of digits in numbers of any size Arranges numbers of any size in ascending and descending order Records numbers of any size using expanded notation Partitions numbers of any size in non-standard forms to aid mental calculations <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MA3-18SP - Uses appropriate methods to collect data and constructs, interprets and evaluates data displays, including dot plots, line graphs and two-way tables</p> <ul style="list-style-type: none"> Pose questions and collect categorical or numerical data by observation or survey Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies <ul style="list-style-type: none"> Tabulates collected data Constructs column and line graphs Constructs dot plots Describe and interpret different data sets in context <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> | <p>Pre-Test Week 3 and 4 cycle</p> |

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|--|---------|--|---|---|
| | 5 and 6 | <p>Addition & Subtraction (1) (Addition Focus)</p> <p>3D Space (1)</p> | <p>MA3-5NA – Selects and applies appropriate strategies for addition and subtraction with counting numbers of any size ADDITION FOCUS</p> <ul style="list-style-type: none"> • Use efficient mental, written strategies and apply appropriate digital technologies to solve problems <ul style="list-style-type: none"> - Revises addition mental strategies for adding numbers (Stage 2) - Uses the term sum to describe the result of adding two or more numbers - Adds three or more numbers with different number digits - Selects, applies and records efficient mental, written and calculator strategies to solve addition problems - Uses an empty number line to record mental strategies - Compares and discusses/justifies advantages of each strategy for efficiency <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MS3-14MG identifies three-dimensional objects, including prisms and pyramids, on the basis of their properties, and visualises, sketches and constructs them given drawings of different views</p> <ul style="list-style-type: none"> • Compare, describe and name prisms and pyramids <ul style="list-style-type: none"> - Identifies and compares number/type of; faces, vertices, edges, bases, ape - Investigates cross section of three-dimensional objects • Connect three-dimensional objects with their nets and other two-dimensional representations <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> | <p><u>Pre-Test Week 5 and 6</u></p> |
| | 7 and 8 | <p>Multiplication & Division (1) (Focus Multiplication)</p> | <p>MA3-6NA - Selects and applies appropriate strategies for multiplication and division, and applies the order of operations to calculations involving more than one operation</p> <ul style="list-style-type: none"> • Solve problems involving multiplication of large numbers by one-or two digit numbers using efficient mental and written strategies and appropriate digital technologies • Uses mental and written strategies to multiply three and four-digit numbers by one-digit numbers, including; <ul style="list-style-type: none"> - multiplying the thousands, then the hundreds, then the tens and then the ones, e.g. $673 \times 4 = (600 \times 4) + (70 \times 4) + (3 \times 4)$ $= 2400 + 280 + 12$ $= 2692$ | <p>Pre-Test Week 7 and 8</p> |

7 and 8

Angles
(1)

- using an area model, eg 684×5



- using the formal algorithm, e.g. 432×5

$$\begin{array}{r} 432 \times \\ \underline{5} \\ 2160 \end{array}$$

MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions

MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations

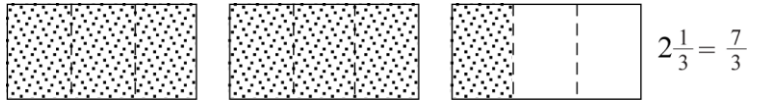
MA3-3WM - Gives a valid reason for supporting one possible solution over another

MA3-16MG - Measures and constructs angles, and applies angle relationships to find unknown angles

- Investigate, with and without the use of technologies, angles on a straight line, angles at a point, and vertically opposite angles; use the results to find unknown angles
 - Identifies the arms and vertex of an angle where both arms are invisible, such as for rotations and rebounds
 - Recognises the need for formal unit of measurement of angles
 - Records angles using symbol for degrees
 - Measures angles of up to 360 degrees using a protractor

MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions

Pre- Test
9 and 10

| | | | |
|--|---|---|---|
| | <p style="text-align: center;">Fractions & Decimals (1)</p> <p style="text-align: center;">9 and 10</p> | <ul style="list-style-type: none"> • MA3-7NA - Compares, orders and calculates with fractions, decimals and percentages • Compare and order common unit fractions and locate and represent them on a number line <ul style="list-style-type: none"> - Places fractions with denominators of 2,3,4,5,6,8,10 and 12 on a number line between 0 and 1 - Compares and orders unit fractions with denominators of 2, 3, 4, 5, 6, 8, 10, 12 and 100 - Investigates strategies to solve problems involving addition and subtraction of fractions with the same denominator - Identifies and describes ‘proper fractions’ as fractions in which the numerator is less than the denominator - Identifies and describes ‘improper fractions’ as fractions in which the numerator is greater than the denominator - Expresses mixed numerals as improper fractions and vice versa, through the use of diagrams and number lines, leading to a mental strategy, e.g. <div style="text-align: center;">  </div> | <p style="text-align: right;">Post Test Weeks 3-10</p> <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MA3-9MG - Selects and uses the appropriate unit and device to measure lengths and distances, calculates perimeters, and converts between units of length</p> <ul style="list-style-type: none"> • Choose appropriate units of measurement for length <ul style="list-style-type: none"> - Recognises the need for formal unit longer than the metre - Recognises that there are 1000 metres in one kilometer - Records lengths and distances using combinations of millimetres, centimetres, metres and kilometres, e.g. 1 km 200m - Estimates lengths and distances using appropriate unit and check by measuring <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> |
| | <p>11</p> | <p>Revisions of Key Concepts Assessment</p> | <p>Base this on your class needs</p> |

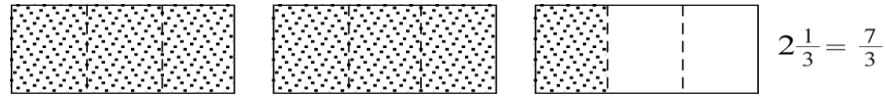
| Term | Week | Content Area / Units | Outcomes | Assessment |
|------|---------|----------------------------|---|--------------------------|
| 2 | 1 and 2 | Whole Number (1) | <p>MA3-4NA – Orders, reads and represents integers of any size and describes properties of whole numbers</p> <ul style="list-style-type: none"> Identify and describe factors and multiples of whole numbers and use them to solve problems <ul style="list-style-type: none"> Determines all ‘factors’ of a given whole number, e.g. 36 has factors 1, 2, 3, 4, 6, 9, 12, 18, and 36 Determines the ‘highest common factor’ (HCF) of two whole numbers, e.g. HCF of 16 and 24 is 8 Determines ‘multiples’ of a given whole number Determines the ‘lowest common multiple’ (LCM) of two whole numbers, e.g. the LCM of 21 and 63 is 63 <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> | Pre-Test Week 1 and 2 |
| | | Time (1) | <p>MA3-31MG – uses 24-hour time and am and pm notation in real-life situations, and constructs timelines</p> <ul style="list-style-type: none"> Compare 12-and 24-hour time systems and convert between them <ul style="list-style-type: none"> Tells time accurately using 24-hour time, eg ‘2330 is the same as 11:30 pm Converts between 24-hour time and time given using am or pm notation Compares the local times in various time zones in Australia, including daylight saving Determine and compare the duration of events <ul style="list-style-type: none"> Selects appropriate unit to measure a particular time period Uses start and finish time to calculate the elapsed time of events <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> | |
| | 3 and 4 | Fractions and Decimals (1) | <p>MA3-7NA - Compares, orders and calculates with fractions, decimals and percentages</p> <ul style="list-style-type: none"> Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator Identifies and describes ‘proper fractions’ as fractions in which the numerator is less than the denominator | Pre-Test Week 3 and 4 |

3 and 4

2D Space (1)

- Identifies and describes 'improper fractions' as fractions in which the numerator is greater than the denominator

- Expresses mixed numerals as improper fractions and vice versa, through the use of diagrams and number lines, leading to a mental strategy, e.g.

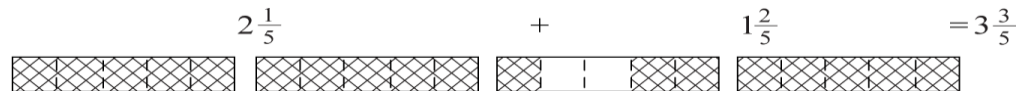


- Models and represents strategies, including using diagrams, to add proper fractions with the same denominator, where the result may be a mixed numeral, e.g.



- Models and represents a whole number added to a proper fraction, e.g. $2 + \frac{3}{4} = 2\frac{3}{4}$
- Subtracts a proper fraction from another proper fraction with the same denominator, e.g. $\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$

- Model and represent strategies, including using diagrams, to add mixed numerals with the same denominator, e.g.



- Uses diagrams, and mental and written strategies, to subtract a unit fraction from any whole number including 1, e.g.



- Solve word problems that involve addition and subtraction of fractions with the same denominator, e.g. 'I eat $\frac{1}{5}$ of a block of chocolate and you eat $\frac{3}{5}$ of the same block. How much of the block of chocolate has been eaten?'

MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions

MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations

MA3-3WM - Gives a valid reason for supporting one possible solution over another

MA3-15MG - Manipulates, classifies and draws two-dimensional shapes, including equilateral,

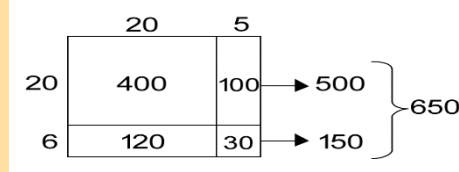
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| | | | <p>isosceles and scalene triangles, and describes their properties</p> <ul style="list-style-type: none"> • Classify two-dimensional shapes and describes their features • Describe translations, reflections and rotations of two-dimensional shapes <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> | |
| 5 and 6 | Addition and Subtraction (1) (Subtraction Focus) | Area (1) | <p>MA3-5NA – Selects and applies appropriate strategies for addition and subtraction with counting numbers of any size</p> <p>SUBTRACTION FOCUS</p> <ul style="list-style-type: none"> • Use efficient mental, written strategies and apply appropriate digital technologies to solve problems <ul style="list-style-type: none"> - Revises subtraction mental strategies for subtracting numbers (stage 2) - Subtracts three or more numbers with different number digits - Selects, applies and records efficient mental, written and calculator strategies to solve subtraction problems - Uses an empty number line to record mental strategies - Compares and discusses/justifies advantages of each strategy for efficiency - Uses estimation and rounding to check reasonableness of answers calculated - Checks solutions to problems, including using the inverse operation <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MA3-10MG – Selects and uses the appropriate unit to calculate areas, including areas of squares, rectangles and triangles</p> <ul style="list-style-type: none"> • Choose appropriate units of measurement for area <ul style="list-style-type: none"> - Recognises the need for formal units larger than the square metre - Records areas using the abbreviations for square kilometre and hectares • Calculate the areas of rectangles using familiar metric units <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> | <p>Pre-Test Week 5 and 6</p> <p>Post-Test Weeks 1-4 (reporting)</p> |

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|--|---------|--|---|--|
| | 7 and 8 | <p>Multiplication and Division (1) (Focus on Division)</p> | <p>MA3-6NA - Selects and applies appropriate strategies for multiplication and division, and applies the order of operations to calculations involving more than one operation</p> <ul style="list-style-type: none"> • Solve problems involving division by a one-digit number, including those that result in a remainder <ul style="list-style-type: none"> - Selects and uses the term 'quotient' to describe the result of a division calculation - Recognises and use different notations to indicate division, e.g. $25 \div 4$, $4 \overline{)25}$, $\frac{25}{4}$ - Records remainders as fractions and decimals, e.g. $25 \div 4 = 6\frac{1}{4}$ or 6.25 - Uses mental and written strategies to divide a number with three or more digits by a one-digit divisor where there is no remainder, including: <ul style="list-style-type: none"> - Dividing the hundreds, then the tens, and then the ones, e.g. $3248 \div 4$ $3200 \div 4 = 800$ $40 \div 4 = 10$ $8 \div 4 = 2$ <p>so $3248 \div 4 = 812$</p> - Using the formal algorithm, e.g. $258 \div 6$ $\begin{array}{r} 43 \\ 6 \overline{)258} \end{array}$ <ul style="list-style-type: none"> - Use mental and written strategies to divide a number with three or more digits by a one-digit divisor where there is a remainder, including: <ul style="list-style-type: none"> - Dividing the tens and then the ones, e.g. $243 \div 4$ $240 \div 4 = 60$ $3 \div 4 = \frac{3}{4}$ <p>so $243 \div 4 = 60\frac{3}{4}$</p> <ul style="list-style-type: none"> - Using the formal algorithm, e.g. $587 \div 6$ $\begin{array}{r} 97\frac{5}{6} \\ 6 \overline{)587} \end{array}$ <ul style="list-style-type: none"> - Show the connection between division and multiplication, including where there is a remainder, e.g. $25 \div 4 = 6$ remainder 1, so $25 = 4 \times 6 + 1$ - Use digital technologies to divide whole numbers by one- and two-digit divisors <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> | <p>Pre-Test Week 7 and 8</p> |
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| | 7 and 8 | Angles (1) | <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MA3-16MG - Measures and constructs angles, and applies angle relationships to find unknown angles</p> <ul style="list-style-type: none"> • Investigate, with and without the use of technologies, angles on a straight line, angles at a point, and vertically opposite angles; use the results to find unknown angles <ul style="list-style-type: none"> - Identifies the arms and vertex of an angle where both arms are invisible, such as for rotations and rebounds - Recognises the need for formal unit of measurement of angles - Records angles using symbol for degrees - Measures angles of up to 360 degrees using a protractor • Construct angles using a protractor <ul style="list-style-type: none"> - Identifies, compares and describes angles - Estimates and measures angles in degrees <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> | |
| | 9 and 10 | Patterns and Algebra (1) | <p>MA3-8NA - Analyses and creates geometric and number patterns, constructs and completes number sentences, and locates points on the Cartesian plane</p> <ul style="list-style-type: none"> • Describe, continue and create patterns with fractions, decimals and whole numbers resulting from addition and subtraction (ACMNA107) <ul style="list-style-type: none"> - Identifies, continues and creates simple number patterns involving addition and subtraction - Describes patterns using the terms 'increase' and 'decrease', e.g. for the pattern 48, 41, 34, 27, ..., 'The terms decrease by seven' - Creates, with materials or digital technologies, a variety of patterns using whole numbers, fractions or decimals, e.g. $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}, \frac{5}{4}, \frac{6}{4}, \dots$ or 2.2, 2.0, 1.8, 1.6, ... - Uses a number line or other diagram to create patterns involving fractions or decimals <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> | <p>Pre-Test Week 9 and 10</p> <p>Post Test Weeks 5-10</p> |

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| | 5 and 6 | Chance (1) | <ul style="list-style-type: none"> - Describes how inverse operations can be used to solve a number sentence - Complete number sentences involving multiplication and division, including those involving simple fractions or decimals, e.g. $7 \times \square = 7.7$ - Checks solutions to number sentences by substituting the solution into the original question - Write number sentences to match word problems that require finding a missing number, e.g. 'I am thinking of a number that when I double it and add 5, the answer is 13. What is the number?' <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MA3-19SP - Conducts chance experiments and assigns probabilities as values between 0 and 1 to describe their outcomes</p> <ul style="list-style-type: none"> • List outcomes of chance experiments involving equally likely outcomes and represent probabilities of those outcomes using fractions • Recognises that probabilities range from 0 to 1 <ul style="list-style-type: none"> - Establishes that the sum of the probabilities of the outcomes of any chance experiment is equal to 1 - Orders commonly used chance words on an interval from zero ('impossible') to one ('certain'), e.g. 'equally likely' would be placed at half or 0.5 <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> | |
| 7 and 8 | Multiplication and Division (1) (Focus Multiplication) | | <p>MA3-6NA - Selects and applies appropriate strategies for multiplication and division, and applies the order of operations to calculations involving more than one operation</p> <ul style="list-style-type: none"> • Solves problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental and written strategies and appropriate digital technologies <ul style="list-style-type: none"> - Revise using mental and written strategies to multiply three- and four-digit numbers by one-digit numbers (as per term 1) - Use mental and written strategies to multiply two- and three-digit numbers by two-digit numbers, including: | Pre-Test Week 7 and 8 |

- Using an area model for two-digit by two-digit multiplication, e.g. 25×26



- Factorising the numbers, e.g. $12 \times 25 = 3 \times 4 \times 25 = 3 \times 100 = 300$
- Using the extended form (long multiplication) of the formal algorithm, e.g.

$$\begin{array}{r} 521 \times \\ 22 \\ \hline 1042 \\ 10420 \\ \hline 11462 \end{array}$$

- Use digital technologies to multiply numbers of up to four digits
- Apply appropriate mental and written strategies, and digital technologies, to solve multiplication word problems
- Records the strategy used to solve multiplication word problems

MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions

MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations

MA3-3WM - Gives a valid reason for supporting one possible solution over another

MA3-18SP - Uses appropriate methods to collect data and constructs, interprets and evaluates data displays, including dot plots, line graphs and two-way tables

Data (1)

- Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies

- Tabulates collected data
- Constructs column and line graphs
- Constructs dot plots

- Describe and interpret different data sets in context

MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions

MA3-3WM - Gives a valid reason for supporting one possible solution over another

9

Whole Number (1)

MA3-4NA – Orders, reads and represents integers of any size and describes properties of whole numbers

- Recognise, represent and order to at least tens of millions

- Use numbers of any size in real-life situations, including money problems
- Interprets information from the internet, the media, the environment and other sources

Pre-Test
Week 9

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| | | <p>- Round numbers to a specified place value, eg round 5 461 883 to the nearest million</p> <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MA3-16MG - Measures and constructs angles, and applies angle relationships to find unknown angles</p> <ul style="list-style-type: none"> • Investigate, with and without the use of technologies, angles on a straight line, angles at a point, and vertically opposite angles; use the results to find unknown angles • Construct angles using a protractor <ul style="list-style-type: none"> - Identifies right angles, straight angles and an angle revolution - Identifies and describes angle size in degrees for each of the classifications acute, obtuse and reflex - Identifies, compares and describes angles - Estimates and measures angles in degrees <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> | |
| 10 | Revisions of Key Concepts Assessment | Base this on your class needs | Post-Test Weeks 1-9 |

| Term | Week | Content Area / Units | Outcomes | Assessment |
|------|---------|----------------------------|--|------------------------------------|
| 4 | 1 and 2 | Fractions and Decimals (1) | <p>MA3-7NA - Compares, orders and calculates with fractions, decimals and percentages</p> <ul style="list-style-type: none"> Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator <ul style="list-style-type: none"> Revise as needed content in Term 1 – 3 Identify proper and improper fractions Compare and order fractions and decimals <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> | Pre-Test Week 1 and 2 |
| | | Position (1 &2) | <p>MA3-17MG - Locates and describes position on maps using a grid-reference system</p> <ul style="list-style-type: none"> Use grid-reference system to describe locations <ul style="list-style-type: none"> Finds and describes locations on maps, given grid reference and using map legends Describe routes using landmarks and directional language (including compass directions) <ul style="list-style-type: none"> Describes, follows and finds a location on a map that is in a given direction from a town or land mark, using directional language (including compass directions) <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> | |
| | 3 and 4 | Whole Number (1) | <p>MA3-4NA – Orders, reads and represents integers of any size and describes properties of whole numbers</p> <ul style="list-style-type: none"> Recognises, represents and orders number to at least tens of millions Uses numbers in real life situations, including money problems Recognises different abbreviations of numbers Rounds numbers to a specified place value Identifies and describes factors and multiples of whole number and use them to solve problems Solves problems using knowledge of factors and multiples <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> | Pre-Test Week 3 and 4 |
| | | Length (1) /Area (1) | | Post-Test Weeks 1-4 (reporting) |

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|---------|--|--|---|--|
| | | | <ul style="list-style-type: none"> - MA3-9MG - Selects and uses the appropriate unit and device to measure lengths and distances, calculates perimeters, and converts between units of length - Calculates the perimeters of rectangles and common two-dimensional shapes using familiar metric units <p>MA3-10MG selects and uses the appropriate unit to calculate areas, including areas of squares, rectangles and triangles</p> <ul style="list-style-type: none"> • Calculate the area of rectangles using familiar metric units <ul style="list-style-type: none"> - Makes comparisons to perimeter of different rectangles with same area. <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> | |
| 5 and 6 | <p>Addition and Subtraction (1) <u>Focus on Problem Solving</u></p> <p>2D Space (1)</p> | <p>MA3-5NA – Selects and applies appropriate strategies for addition and subtraction with counting numbers of any size</p> <ul style="list-style-type: none"> • Use efficient mental and written strategies and apply appropriate digital technologies to solve problems <ul style="list-style-type: none"> - Revise mental and written addition and subtraction strategies as required. - Select and apply efficient mental and written strategies and appropriate digital technologies to solve word problems involving addition and subtraction of any size. <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MA3-15MG - Manipulates, classifies and draws two-dimensional shapes, including equilateral, isosceles and scalene triangles, and describes their properties</p> <ul style="list-style-type: none"> • Classify two-dimensional shapes and describes their features <ul style="list-style-type: none"> - Describe translations, reflections and rotations of two-dimensional shapes • Identify line and rotational symmetries <ul style="list-style-type: none"> - Identify and quantify the total number of lines (axes) of symmetry (if any exist) of two-dimensional shapes - Identify shapes that have rotational symmetry and determine the 'order' of rotational symmetry • Apply the enlargement transformations to familiar two-dimensional shapes and explore the properties of the resulting image compared with the original | <p style="text-align: center;">Pre-Test Week 5 and 6</p> | |

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| | | | <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> |
| 7 and 8 | Multiplication and Division (1) | Time (1) | <p>MA3-6NA - Selects and applies appropriate strategies for multiplication and division, and applies the order of operations to calculations involving more than one operation</p> <ul style="list-style-type: none"> • Select and apply efficient mental and written strategies, and appropriate digital technologies, to solve word problems involving multiplication and division of whole number <ul style="list-style-type: none"> - Record strategy used - Use estimation and rounding to check the reasonableness of answers to calculations - Revision as needed of mental and written strategies as per term 1-3 <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> <p>MA3-3WM - Gives a valid reason for supporting one possible solution over another</p> <p>MA3-31MG – uses 24-hour time and am and pm notation in real-life situations, and constructs timelines</p> <ul style="list-style-type: none"> • Read and write analog and digital times. <ul style="list-style-type: none"> - Compare 12 - and 24 - hour times and convert between them • Determine and compare the duration of events <p>MA3-1WM - Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions</p> <p>MA3-2WM - Selects and applies appropriate problem-solving strategies, including the use of digital technologies, in undertaking investigations</p> |
| 9 and 10 | Revisions of Key Concepts | | Base this on your class needs |