Surveyors Creek PS

Mathematics Scope & Sequence

Stage Two

*These documents are to be used in conjunction when planning a teaching cycle for each term. The scope and sequences have been colour coded to match the syllabus colour and to match the colour assigned to each stage:
Early Stage 1 = Yellow Stage 1 = Pink Stage 2 = Green Stage 3 = Orange

S2 Mathematics Scope and Sequence	**Term 1**

NOTE: Working mathematically should be imbedded into all mathematics lesson/activities.

MA2-1WM describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols
MA2-2WM uses objects, diagrams and technology to explore mathematical problems
MA2-3WM supports conclusions by explaining or demonstrating how answers were

Week	Outcomes	Content	Assessment
1	**Initial Assessment**	SENA 1 –Resources/Activities SENA 1 – Recording Sheet SENA 2 –Resources/Activities SENA 2 – Recording Sheet SENA 3 – Resources/Activities SENA 3 – Recording Sheet SENA 4 – Resources/Activities SENA 4 – Recording Sheet	**Pre-Test** **SENA 1-4**
	Data (1) **MA2-18SP selects appropriate methods to collect data, and constructs, compares, interprets and evaluates data displays, including tables, picture graphs and column graphs**	○ Pose questions that require data collection ○ Collect data and create a list or table to organise the data ○ Use computer software to create a table to organise collected data ○ Construct graphs that represent data using one-to-one correspondence	
2	**Whole Number (1)** **MA2-4NA applies place value to order, read and represent numbers of up to five digits**	○ Apply an understanding of place value and the role of zero to read, write and order numbers of up to four digits ○ Use place value to partition numbers of up to four digits	
	Data (1) **MA2-18SP selects appropriate methods to collect data, and constructs, compares, interprets and evaluates data displays, including tables, picture graphs and column graphs**	○ Describe and interpret information presented in simple tables, column graphs and picture graphs ○ Make conclusions about data presented in different data displays	

3	**Addition and Subtraction (1) – ADDITION ONLY** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Add three or more single-digit numbers ○ Apply known single-digit addition and subtraction facts to mental strategies for addition and subtraction of two-, three- and four-digit numbers, including: - the jump strategy on an empty number line - using place value to partition numbers	
	Length (1) **MA2-9MG - measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures**	○ Estimate, measure, record and compare lengths and distances using metres and centimetres	
4	**Addition and Subtraction (1) – SUBTRACTION ONLY** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Apply known single-digit subtraction facts to mental strategies for addition and subtraction of two-, three- and four-digit numbers, including: ○ the jump strategy on an empty number line ○ - using place value to partition numbers	
	Length (1) **MA2-9MG - measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures**	○ Estimate, measure and record lengths to the nearest millimetre, using a ruler and the abbreviation mm	
	Patterns and Algebra **MA2-8NA - generalises properties of odd and even numbers, generates number patterns,**	○ Identify even or odd numbers of up to four digits ○ Model even and odd numbers of up to two digits using arrays with two rows	

5	**and completes simple number sentences by calculating missing values**	○ Recognise the connection between even numbers and the multiplication facts for two	
	Volume and Capacity **MA2-11MG - measures, records, compares and estimates volumes and capacities using litres, millilitres and cubic centimetres**	○ Estimate, measure, order and compare objects using familiar metric units of capacity and using the abbreviation for litres (L)	
6	**Patterns and Algebra** **MA2-8NA - generalises properties of odd and even numbers, generates number patterns, and completes simple number sentences by calculating missing values**	○ Describe, continue and create number patterns resulting from performing addition or subtraction ○ Identify and describe patterns when counting forwards or backwards by threes, fours, sixes, sevens, eights and nines from any starting point	
	Volume and Capacity **MA2-11MG - measures, records, compares and estimates volumes and capacities using litres, millilitres and cubic centimetres**	○ Measure and compare objects using cubic centimetres abbrieviated to cm^3 ○ Construct three-dimensional objects using cubic-centimetre blocks and count the blocks to determine the volumes of the objects ○ Distinguish between mass and volume	
7	**Multiplication and Division (1)** **MA2-6NA - uses mental and informal written strategies for multiplication and division**	○ Use mental strategies to recall multiplication facts for multiples of two, three, five and ten ○ Link multiplication and division facts using groups or arrays ○ Model and apply the commutative property of multiplication	
	2D Space (1) **MA2-15MG manipulates, identifies and sketches two-dimensional shapes, including**	○ Identify and describe two-dimensional shapes as either 'regular' or 'irregular' ○ Draw representations of regular and irregular two-dimensional	

	special quadrilaterals, and describes their features	shapes in different orientations ○ Construct regular and irregular two-dimensional shapes from a variety of materials comparing the rigidity of three and four-sided shapes (Links to STEM Day – strong shapes) ○ Identify symmetry in the environment ○ Identify and draw lines of symmetry on given shapes, including the special quadrilaterals and other regular and irregular shapes	
8	**Multiplication and Division (1)** **MA2-6NA - uses mental and informal written strategies for multiplication and division**	○ Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies ○ Use mental strategies to multiply a one-digit number by a multiple of 10, including: repeated addition ○ Use place value concepts	
	2D Space (1) **MA2-15MG manipulates, identifies and sketches two-dimensional shapes, including special quadrilaterals, and describes their features**	○ Manipulate, compare and describe features of two-dimensional shapes, including the special quadrilaterals: parallelograms, rectangles, rhombuses, squares, trapeziums and kites ○ Identify and name the special quadrilaterals presented in different orientations ○ Identify right angles in squares and rectangles	
9	**Fractions and Decimals (1)** **MA2-7NA – represents, models and compares commonly used fractions and decimals**	○ Use the terms 'fraction', 'denominator' and 'numerator' appropriately when referring to fractions ○ Model fractions with denominators of 2, 3, 4, 5 and 8 of whole objects, shapes and collections using concrete materials and diagrams ○ Recognise that as the number of parts that a whole is divided into becomes larger, the size of each part becomes smaller	

	3D Space (1) **MA2-14MG – makes, compares, sketches and names three-dimensional objects, including prisms, pyramids, cylinders, cones and spheres, and describes their features**	○ Make models of three-dimensional objects and describe key features ○ Identify and name three-dimensional objects as prisms (including cubes), pyramids, cylinders, cones and spheres ○ Identify prisms (including cubes), pyramids, cylinders, cones and spheres in the environment and from drawings, photographs and descriptions ○ Deconstruct everyday packages that are prisms (including cubes) to create nets	
10	**Fractions and Decimals (1)** **MA2-7NA – represents, models and compares commonly used fractions and decimals**	○ Count by quarters, halves and thirds, including with mixed numerals; locate and represent these fractions on a number line ○ Identify and describe 'mixed numerals' as having a whole-number part and a fractional part ○ Place halves, quarters, eighths and thirds on number lines between 0 and 1	
	3D Space (1) **MA2-14MG – makes, compares, sketches and names three-dimensional objects, including prisms, pyramids, cylinders, cones and spheres, and describes their features**	○ Recognise that a net requires each face to be connected to at least one other face ○ Investigate, make and identify the variety of nets that can be used to create a particular prism, such as the variety of nets that can be used to make a cube ○ Distinguish between (flat) nets, which are 'two-dimensional', and objects created from nets, which are 'three-dimensional'	

S2 Mathematics Scope and Sequence	**Term 2**

NOTE: Working mathematically should be imbedded into all mathematics lesson/activities.

MA2-1WM describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols
MA2-2WM uses objects, diagrams and technology to explore mathematical problems
MA2-3WM supports conclusions by explaining or demonstrating how answers were

Week	Outcomes	Content	Assessment
1	**Whole Number (1)** **MA2-4NA applies place value to order, read and represent numbers of up to five digits**	○ Use place value to compare and explain the relative size of four-digit numbers ○ Use the terms and symbols for 'is less than' (<) and 'is greater than' (>) to show the relationship between two numbers	
	Time (1) **MA2-13MG – reads and records time in one-minute intervals and converts between hours, minutes and seconds**	○ Read analog and digital clocks to the minute, including using the terms 'past' and 'to'	
2	**Whole Number (1)** **MA2-4NA applies place value to order, read and represent numbers of up to five digits**	○ Round numbers to the nearest ten, hundred or thousand	
	Time (1) **MA2-13MG – reads and records time in one-minute intervals and converts between hours, minutes and seconds**	○ Read analog and digital clocks to the minute, including using the terms 'past' and 'to'	
3	**Addition and Subtraction (1)** **MA2-5NA – uses mental and written**	○ Use the equals sign to record equivalent number sentences involving addition and subtraction	

	strategies for addition and subtraction involving two-, three-, four- and five-digit numbers	○ Demonstrate how addition and subtraction are inverse operations ○ Explain and check solutions to problems, including by using the inverse operation	
	Mass (1) **MA2-12MG - measures, records, compares and estimates the masses of objects using kilograms and grams**	○ Estimate, measure, order and compare objects using kilograms and the abbreviation kg ○ Recognise that objects with a mass of one kilogram can be a variety of shapes and sizes	
4	**Addition and Subtraction (1)** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Apply known single-digit addition and subtraction facts to mental strategies for addition and subtraction of two-, three- and four-digit numbers, including: ○ using patterns to extend number facts ○ the split strategy ○ bridging the decades	
	NAPLAN	**NAPLAN**	**NAPLAN**
5	**Patterns and Algebra** **MA2-8NA - generalises properties of odd and even numbers, generates number patterns, and completes simple number sentences by calculating missing values**	○ Investigate and use the properties of even and odd numbers ○ Investigate and generalise the result of adding, subtracting and multiplying pairs of even numbers, pairs of odd numbers, or one even and one odd number	
	Length (1) **(Perimeter)** **MA2-9MG - measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures**	○ Select and use an appropriate device to measure lengths and distances ○ Use the term 'perimeter' to describe the total distance around a two-dimensional shape ○ Estimate and measure the perimeters of two-dimensional shapes	

6	**Patterns and Algebra** **MA2-8NA - generalises properties of odd and even numbers, generates number patterns, and completes simple number sentences by calculating missing values**	○ Investigate visual number patterns on a number chart ○ Investigate and generate number sequences involving multiples of 3, 4, 6, 7, 8 and 9 ○ Describe how the next term in a number pattern is calculated	
	Area (1) **MA2-10MG - measures, records, compares and estimates areas using square centimetres and square metres**	○ Measure the areas of common two-dimensional shapes using a square-centimetre grid overlay ○ Develop strategies for counting partial units in the total area of the shape ○ Use efficient strategies for counting large numbers of square centimetres ○ Measure the areas of rectangles (including squares) in square centimetres using the abbreviation cm^2	

7	**Multiplication and Division (1)**
	MA2-6NA - uses mental and informal written strategies for multiplication and division
		○ Use mental strategies to multiply a one-digit number by a multiple of 10, including:
		  ○ factorising the multiple of 10
		  ○ apply the inverse relationship of multiplication and division to justify answers	

	Position **MA2-17MG uses simple maps and grids to represent position and follow routes, including using compass directions**	○ Use and follow positional and directional language ○ Use grid references on maps to describe position	

8	**Multiplication and Division (1)**
	MA2-6NA - uses mental and informal written strategies for multiplication and division
		○ Use mental strategies to multiply a one-digit number by a multiple of 10, including:
		  ○ repeated addition
		  ○ using place value concepts
		○ Pose multiplication problems and apply appropriate strategies to solve them	

	Position **MA2-17MG uses simple maps and grids to represent position and follow routes, including using compass directions**	○ Draw simple maps and plans from an aerial view, with and without labelling a grid ○ Draw and describe routes or paths on grid-referenced maps and plans ○ Use a legend (or key) to locate specific objects on a map	

9	**Addition and Subtraction**
	MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
		○ Apply known single-digit addition and subtraction facts to mental strategies for addition and subtraction of two-, three- and four-digit numbers, including:
		  ○ using patterns to extend number facts
		  ○ the split strategy
		  ○ bridging the decades
		○ Choose and apply efficient strategies for addition and subtraction
		○ Give a reasonable estimate for a problem, explain how the estimate was obtained, and check the solution	

	Chance **MA2-19SP - describes and compares chance events in social and experimental contexts**	○ Conduct chance experiments, identify and describe possible outcomes, and recognise variation in results ○ Use the term 'outcome' to describe any possible result of a chance experiment ○ Keep a tally and graph the results of a chance experiment	

10	**Addition and Subtraction** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers**	○ Apply known single-digit addition and subtraction facts to mental strategies for addition and subtraction of two-, three- and four-digit numbers, including: - the compensation strategy ○ Select, use and record a variety of mental strategies to solve addition and subtraction problems, including word problems, with numbers of up to four digits ○ Choose and apply efficient strategies for addition and subtraction	
	Chance **MA2-19SP - describes and compares chance events in social and experimental contexts**	○ Predict the number of times each outcome should occur in a chance experiment involving a set number of trials, carry out the experiment, and compare the predicted and actual results ○ Make statements that acknowledge 'randomness' in a situation Repeat a chance experiment several times and discuss why the results vary	

S2 Mathematics Scope and Sequence — Term 3

NOTE: Working mathematically should be imbedded into all mathematics lesson/activities.

MA2-1WM describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols
MA2-2WM uses objects, diagrams and technology to explore mathematical problems
MA2-3WM supports conclusions by explaining or demonstrating how answers were

Week	Outcomes	Content	Assessment
1	**Whole Number (2)** **MA2-4NA applies place value to order, read and represent numbers of up to five digits**	○ Recognise, represent and order numbers to at least tens of thousands ○ Arrange numbers of up to five digits in ascending and descending order	
	Data **MA2-18SP selects appropriate methods to collect data, and constructs, compares, interprets and evaluates data displays, including tables, picture graphs and column graphs**	○ Create a survey and related recording sheet, considering the appropriate organisation of categories for data collection ○ Compare the effectiveness of different methods of collecting and recording data ○ Construct suitable data displays, with and without the use of digital technologies, from given or collected data; include tables	
2	**Whole Number** **MA2-4NA applies place value to order, read and represent numbers of up to five digits**	○ Use place value to partition numbers of up to five digits and recognise this as 'expanded notation' ○ Partition numbers of up to five digits in non-standard forms ○ Round numbers to the nearest ten, hundred, thousand or ten thousand	

	Data **MA2-18SP selects appropriate methods to collect data, and constructs, compares, interprets and evaluates data displays, including tables, picture graphs and column graphs**	○ Represent given or collected categorical data in tables, column graphs and picture graphs, using a scale of many-to-one correspondence, with and without the use of digital technologies ○ Discuss and determine a suitable scale of many-to-one correspondence to draw graphs for large data sets and state the key used ○ Use grid paper to assist in drawing graphs that represent data using a scale of many-to-one correspondence ○ Use data in a spreadsheet to create column graphs with appropriately labelled axes	
3	**Addition and Subtraction (2)** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Calculate equivalent amounts of money using different denominations ○ Perform simple calculations with money, including finding change, and round to the nearest five cents ○ Calculate mentally to give change	
	Position (2) **MA2-17MG uses simple maps and grids to represent position and follow routes, including using compass directions**	○ Determine the directions north, east, south and west when given one of the directions ○ Determine the directions NE, SE, SW and NW when given one of the directions	
4	**Addition and Subtraction (2)** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Apply known single-digit subtraction facts to mental strategies for addition and subtraction of two-, three- and four-digit numbers, including: ○ the jump strategy on an empty number line ○ - using place value to partition numbers	

	Position (2) **MA2-17MG uses simple maps and grids to represent position and follow routes, including using compass directions**	○ Use a legend (or key) to locate specific objects on a map ○ Use scales involving multiples of 10 to calculate the distance between two points on maps and plans ○ Interpret simple scales on maps and plans	
5	**Multiplication and Division (1)** **MA2-6NA - uses mental and informal written strategies for multiplication and division**	○ Determine 'factors' for a given whole number ○ Multiply three or more single-digit numbers ○ Multiply by factorising the larger number	
	Area (2) **MA2-10MG - measures, records, compares andestimates areas using square centimetres and square metres**	○ Recognise areas that are 'less than a square metre', 'about the same as a square metre' and 'greater than a square metre' ○ Record areas in square metres using words and the abbreviation for square metres (m^2) ○ Estimate and compare the areas of rectangles (including squares) in square metres	

6	**Multiplication and Division (1)**
	MA2-6NA - uses mental and informal written strategies for multiplication and division
		○ Develop efficient mental and written strategies, and use appropriate digital technologies, for multiplication and for division where there is no remainder
		○ Use mental and informal written strategies to multiply a two-digit number by a one-digit number, including:
		  ○ using known facts
		  ○ multiplying the tens and then the units	

	Area (2) **MA2-10MG - measures, records, compares and estimates areas using square centimetres and square metres**	○ Recognise areas that are 'less than a square metre', 'about the same as a square metre' and 'greater than a square metre' ○ Record areas in square metres using words and the abbreviation for square metres (m^2) ○ Estimate and compare the areas of rectangles (including squares) in square metres	

7	**Patterns and Algebra** **MA2-8NA - generalises properties of odd and even numbers, generates number patterns, and completes simple number sentences by calculating missing values**	○ Use inverse operations to complete number sentences ○ Find the missing number in a number sentence involving operations of addition or subtraction on both sides of the equals sign	
	Angles **MA2-16MG - identifies, describes, compares and classifies angles**	○ Classify angles as acute, right, obtuse, straight, reflex or a revolution ○ Describe the size of different types of angles in relation to a right angle ○ Create, draw and classify angles of various sizes	
8	**Patterns and Algebra** **MA2-8NA - generalises properties of odd and even numbers, generates number patterns, and completes simple number sentences by calculating missing values**	○ Complete number sentences involving multiplication and division by calculating missing numbers ○ Discuss whether it is more appropriate to represent the problem using × or ÷ in order to calculate the solution ○ Pose a word problem based on a given number sentence	
	Angles **MA2-16MG - identifies, describes, compares and classifies angles**	○ Classify angles as acute, right, obtuse, straight, reflex or a revolution ○ Describe the size of different types of angles in relation to a right angle ○ Create, draw and classify angles of various sizes	

9	**Fractions and Decimals** **MA2-7NA – represents, models and compares commonly used fractions and decimals**	○ Model, compare and represent fractions with denominators of 2, 4 and 8; 3 and 6; and 5, 10 and 100 ○ Model, compare and represent the equivalence of fractions with related denominators by redividing the whole, using concrete materials, diagrams and number lines	
	Volume and Capacity **MA2-11MG - measures, records, compares and estimates volumes and capacities using litres, millilitres and cubic centimetres**	○ Recognise that there are 1000 millilitres in one litre ○ Use the millilitre as a unit to measure volume and capacity, using a device calibrated in millilitres ○ Convert between millilitres and litres	
10	**Fractions and Decimals (1)** **MA2-7NA – represents, models and compares commonly used fractions and decimals**	○ Recognise that the place value system can be extended to tenths and hundredths, and make connections between fractions and decimal notation ○ Recognise and apply decimal notation to express whole numbers, tenths and hundredths as decimals	
	Volume and Capacity **MA2-11MG - measures, records, compares and estimates volumes and capacities using litres, millilitres and cubic centimetres**	○ Estimate and measure the capacity of a container in millilitres and check by measuring ○ Estimate and measure the change in water level when an object is submerged	

S2 Mathematics Scope and Sequence — Term 4

NOTE: Working mathematically should be imbedded into all mathematics lesson/activities.

MA2-1WM describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols
MA2-2WM uses objects, diagrams and technology to explore mathematical problems
MA2-3WM supports conclusions by explaining or demonstrating how answers were

Week	Outcomes	Content	Assessment
1	**Length (2)** **MA2-9MG - measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures**	○ Recognise the need for formal units to measure temperature ○ Use a thermometer to measure and compare temperatures to the nearest degree Celsius ○ Record temperatures to the nearest degree Celsius using the symbol for degrees (°)	
	Chance **MA2-19SP - describes and compares chance events in social and experimental contexts**	○ Use the terms 'equally likely', 'likely' and 'unlikely' to describe the chance of everyday events occurring ○ Order events from least likely to most likely to occur ○ Identify and discuss everyday events that cannot occur at the same time ○ Identify and discuss events where the chance of one occurring will not be affected by the occurrence of the other	
2	**Length (2)** **MA2-9MG - measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures**	○ Convert between metres and centimetres, and between centimetres and millimetres ○ Describe one centimetre as one-hundredth of a metre and one millimetre as one-tenth of a centimetre ○ Record lengths and distances using decimal notation to two decimal places	

	Time (2) **MA2-17MG – reads and records time in one-minute intervals and converts between hours, minutes and seconds**	○ Read and interpret simple timetables, timelines and calendars	
3	**Addition and Subtraction (2)** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Use a formal written algorithm to record addition and subtraction calculations involving two-, three-, four- and five-digit numbers	
	Mass **MA2-12MG - measures, records, compares and estimates the masses of objects using kilograms and grams**	○ Recognise that there are 1000 grams in one kilogram ○ Use the gram as a unit to measure mass, using a scaled instrument ○ Record masses using kilograms and grams	
4	**Addition and Subtraction (2)** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Calculate change and round to the nearest five cents ○ Reflect on their chosen method of solution for a money problem, considering whether it can be improved ○ Use estimation to check the reasonableness of solutions to addition and subtraction problems, including those involving money	
	Mass **MA2-12MG - measures, records, compares and estimates the masses of objects using kilograms and grams**	○ Compare two or more objects by mass measured in kilograms and grams, using a set of scales ○ Interpret commonly used fractions of a kilogram, including 1/2, 1/4, 3/4, and relate these to the number of grams ○ Solve problems, including those involving commonly used fractions of a kilogram	

5	**Multiplication and Division** **MA2-6NA - uses mental and informal written strategies for multiplication and division**	○ Use mental strategies to divide a two-digit number by a one-digit number where there is no remainder, including: ○ using the inverse relationship of multiplication and division ○ using halving and repeated halving to divide by 2, 4 and 8 ○ using the relationship between division facts ○ Use mental strategies and informal recording methods for division with remainders ○ model division, including where the answer involves a remainder, using concrete materials ○ explain why a remainder is obtained in answers to some division problems ○ use mental strategies to divide a two-digit number by a one-digit number in problems for which answers include a remainder ○ record remainders to division problems in words	
	2D Space **MA2-15MG manipulates, identifies and sketches two-dimensional shapes, including special quadrilaterals, and describes their features**	○ Combine common two-dimensional shapes, including special quadrilaterals, to form other common shapes or designs ○ Split a given shape into two or more common shapes and describe the result	

6	**Multiplication and Division (1)** **MA2-6NA - uses mental and informal written strategies for multiplication and division**	○ Apply the inverse relationship of multiplication and division to justify answers ○ Record mental strategies used for multiplication and division ○ Select and use a variety of mental and informal written strategies to solve multiplication and division problems	
	2D Space **MA2-15MG manipulates, identifies and sketches two-dimensional shapes, including special quadrilaterals, and describes their features**	○ Create and describe symmetrical patterns, designs, pictures and shapes ○ by translating (sliding), reflecting (flipping) and rotating (turning) one or more common shapes ○ Apply and describe amounts of rotation, in both 'clockwise' and 'anti-clockwise' directions, including half-turns, quarter-turns and three-quarter-turns, when creating designs ○ Draw the reflection (mirror image) to complete symmetrical pictures and shapes, given a line of symmetry	
7	**Fractions and Decimals** **MA2-7NA – represents, models and compares commonly used fractions and decimals**	○ State the place value of digits in decimal numbers of up to two decimal places ○ Use place value to partition decimals of up to two decimal places ○ Model, compare and represent decimals of up to two decimal places	
	3D Space **MA2-14MG – makes, compares, sketches and names three-dimensional objects, including prisms, pyramids, cylinders, cones and spheres, and describes their features**	○ Sketch three-dimensional objects from different views, including top, front and side views ○ Draw different views of an object constructed from connecting cubes on isometric grid paper	

		○ Interpret given isometric drawings to make models of three-dimensional objects using connecting cubes	
8	**Fractions and Decimals** **MA2-7NA – represents, models and compares commonly used fractions and decimals**	○ Use a calculator to create patterns involving decimal numbers ○ Place decimals of up to two decimal places on a number line ○ Round a number with one or two decimal places to the nearest whole number	
	3D Space **MA2-14MG – makes, compares, sketches and names three-dimensional objects, including prisms, pyramids, cylinders, cones and spheres, and describes their features**	○ Sketch three-dimensional objects from different views, including top, front and side views ○ Draw different views of an object constructed from connecting cubes on isometric grid paper ○ Interpret given isometric drawings to make models of three-dimensional objects using connecting cubes	
9	**Addition and Subtraction** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Use a formal written algorithm to record addition and subtraction calculations involving two-, three-, four- and five-digit numbers	**REPORTS HOME**
	Time **MA2-13MG – reads and records time in one-minute intervals and converts between hours, minutes and seconds**	○ Convert between units of time and recall time facts ○ Record digital time using the correct notation, including am and pm ○ Relate analog notation to digital notation for time	
10	**Addition and Subtraction** **MA2-5NA – uses mental and written strategies for addition and subtraction involving two-, three-, four and five-digit numbers**	○ Find the missing number in a number sentence involving operations of addition or subtraction on both sides of the equals sign ○ Justify solutions when completing number sentences	