Surveyors Creek PS

Mathematics Scope & Sequence

Stage One

*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

S1 Mathematics Scope and Sequence — Term 1

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

MA1-1WM describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols
MA1-2WM uses objects, diagrams and technology to explore mathematical problems
MA1-3WM supports conclusions by explaining or demonstrating how answers were

Week	Outcomes	Content	Assessment
1-2	**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	**SENA 1-4**
3	**Whole Number** **MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers**	○ Count forwards and backwards by ones from a two-digit number ○ Partition two-digit numbers using place value ○ Recognise, describe and order Australian coins according to their value	
	Time **MA1-13MG describes, compares and orders durations of events, and reads half- and quarter-hour time**	○ Name and order months and seasons ○ Use a calendar to identify the date and determine the number of days in each month	
4	**Whole Number** **MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers**	○ Partition two-digit numbers using place value ○ Read, write and order two-digit numbers ○ Read and use ordinal names to at least 'thirty-first'	
	Time **MA1-13MG describes, compares and orders durations of events, and reads half- and quarter-hour time**	○ Name and order months and seasons ○ Use a calendar to identify the date and determine the number of days in each month	

5	**Addition and Subtraction** **MA1-5NA uses a range of strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers**	○ Model addition and subtraction using concrete materials ○ Recognise and recall combinations of numbers that add to numbers up to 20	**Year 1 Assessment** **Year 2 Assessment**
	2D Space **MA1-15MG manipulates, sorts, represents, describes and explores two-dimensional shapes, including quadrilaterals, pentagons, hexagons and octagons**	○ Identify and name triangles, quadrilaterals, pentagons, hexagons and octagons presented in different orientations, in pictures and the environment	**Week 5: PLAN** **Data Entry Due**
6	**Addition and Subtraction** **MA1-5NA uses a range of strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers**	○ Model addition and subtraction using concrete materials ○ Recognise and recall combinations of numbers that add to numbers up to 20 ○ Model and apply the commutative property for addition ○ Make connections between addition and subtraction	
	2D Space **MA1-15MG manipulates, sorts, represents, describes and explores two-dimensional shapes, including quadrilaterals, pentagons, hexagons and octagons**	○ Use the terms 'side' and 'vertex' to describe and compare two-dimensional shapes ○ Identify horizontal, vertical and parallel lines	
	Multiplication and Division **MA1-6NA uses a range of mental strategies and concrete materials for multiplication and division**	○ Rhythmic and skip count by twos, fives and tens from zero ○ Model and use equal 'groups of' objects as a strategy for multiplication	

7	**Length** **MA1-9MG measures, records, compares and estimates lengths and distances using uniform informal units, metres and centimetres**	○ Use uniform informal units to measure, compare and estimate lengths	
8	**Multiplication and Division** **MA1-6NA uses a range of mental strategies and concrete materials for multiplication and division**	○ Rhythmic and skip count by twos, fives and tens from zero ○ Model and use equal 'groups of' objects as a strategy for multiplication ○ Model division by sharing a collection equally into a given number of groups to determine the number in each group	
	Length **MA1-9MG measures, records, compares and estimates lengths and distances using uniform informal units, metres and centimetres**	○ Compare and order shapes/objects based on length measured using uniform informal units	
9	**Patterns and Algebra** **(Relate to 2D Space)** **MA1-8NA creates, represents and continues a variety of patterns with numbers and objects**	○ Recognise, copy, create, continue and describe repeating patterns of objects or symbols	
	3D Space **MA1-14MG sorts, describes, represents and recognises familiar three- dimensional objects, including cones, cubes, cylinders, spheres and prisms**	○ Distinguish between flat and curved surfaces ○ Use the term 'faces' to describe flat surfaces with straight edges ○ Identify cones, cubes, cylinders, spheres and prisms presented in different orientations, in pictures and the environment	

10	**Patterns and Algebra** **MA1-8NA creates, represents and continues a variety of patterns with numbers and objects**	○ Recognise, copy, create, continue and describe repeating patterns of objects or symbols	**Year 1 Assessment** **Year 2 Assessment**
	3D Space **MA1-14MG sorts, describes, represents and recognises familiar three- dimensional objects, including cones, cubes, cylinders, spheres and prisms**	○ Use the terms 'flat surface', 'curved surface', 'face', 'edge' and 'vertex' appropriately to describe three- dimensional objects	**Week 10: PLAN Data Entry Due HOME TO PARENTS**

S1 Mathematics Scope and Sequence — **Term 2**

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

MA1-1WM describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols
MA1-2WM uses objects, diagrams and technology to explore mathematical problems
MA1-3WM supports conclusions by explaining or demonstrating how answers were

Week	Outcomes	Content	Assessment
1	**Whole Number** **(Relate to Time)** **MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers**	○ Count forwards and backwards by ones from a two-digit number ○ Read, write and order two-digit numbers ○ Read and use ordinal names to at least 'thirty-first'	

	Time **(Relate to Whole Number)** **MA1-13MG describes, compares and orders durations of events, and reads half- and quarter-hour time**	○ Name and order months and seasons ○ Use a calendar to identify the date and determine the number of days in each month ○ Tell time to the half hour	
2	**Whole Number** **MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers**	○ Partition two-digit numbers using place value. ○ Read, write and order two-digit numbers ○ Recognise, describe and order Australian coins and notes according to their value	
	Time **MA1-13MG describes, compares and orders durations of events, and reads half- and quarter-hour time**	○ Use a calendar to determine duration in months, weeks and days ○ Tell time to the half-hour ○ Tell time to the quarter-hour, using the language of 'past' and 'to' ○ Experience activities with duration of 1 hour, half/quarter of an hour, one minute and a few seconds ○ Uses informal units to measure and compare the duration of events	
3	**Fractions and Decimals** **MA1 – 7NA represents and models halves, quarters and eighths**	○ Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections	
	Position **MA1-16MG represents and describes the positions of objects in everyday situations and on maps**	○ Give and follow directions to move to familiar locations and to position objects ○ Use the terms left and right to describe position in relation to self and from the perspective of a person facing in the opposite direction	
4	**Fractions and Decimals** **MA1 – 7NA represents and models halves, quarters and eighths**	○ Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections	
	Position **MA1-16MG represents and describes the positions of objects in everyday**	○ Give and follow directions to move to familiar locations and to position objects ○ Describe a path from one location to another	

	situations and on maps		
5	**Addition and Subtraction** **MA1-5NA uses a range of strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers**	○ Recognise and recall combinations of numbers that add to numbers up to 20 ○ Model and apply the commutative property for addition	**Year 1 Assessment** **Year 2 Assessment** **Week 10: PLAN Data Entry**
	Data **MA1-17SP Collect, represent, analyse, interpret and evaluate data, assign and use probabilities, and make sound judgements**	○ Collect data and track what has been counted ○ Create data displays using objects and pictures (one-to- one correspondence) and interpret them	
6	**Addition and Subtraction** **MA1-5NA uses a range of strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers**	○ Record number sentences using drawings, words, numerals and the symbols +, – and = ○ Use and record a range of mental strategies for addition and subtraction of one-and two-digit numbers ○ Use the equals sign to record equivalent number sentences	
	Data **MA1-17SP Collect, represent, analyse, interpret and evaluate data, assign and use probabilities, and make sound judgements**	○ Collect data and track what has been counted ○ Create data displays using objects and pictures (one-to- one correspondence) and interpret them	
7	**Multiplication and Division** **MA1-6NA uses a range of mental strategies and concrete materials for**	○ Rhythmic and skip count by twos, fives and tens from zero ○ Model and use equal 'groups of' objects as a strategy for multiplication	

	multiplication and division		
	Area **MA1-10MG measures, records, compares and estimates areas using uniform informal units**	○ Use uniform informal units to measure and estimate areas	
8	**Multiplication and Division** **MA1-6NA uses a range of mental strategies and concrete materials for multiplication and division**	○ Rhythmic and skip count by twos, fives and tens from zero ○ Model division by sharing a collection equally into a given number of groups to determine the number in each group ○ Model division by sharing a collection equally into groups of a given size to determine the number of groups	
	Area **MA1-10MG measures, records, compares and estimates areas using uniform informal units**	○ Record areas by referring to the number and type of uniform informal unitised ○ Compare and order surfaces based on area measured using uniform informal units	
9	**Patterns and Algebra** **MA1-8NA creates, represents and continues a variety of patterns with numbers and objects**	○ Recognise, copy, continue, create and describe increasing and decreasing number patterns	
	Chance **MA1-18SP recognises and describes the element of chance in everyday events**	○ Recognise the element of chance in familiar situations ○ Describe chance events using everyday language	

10	**Assessment**	○ **To be based on individual class needs**	**Year 1 Assessment** **Year 2 Assessment** **Week 10: PLAN Data Entry** **SEMESTER 1 REPORTS HOME**

S1 Mathematics Scope and Sequence — **Term 3**

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

MA1-1WM describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols
MA1-2WM uses objects, diagrams and technology to explore mathematical problems
MA1-3WM supports conclusions by explaining or demonstrating how answers were

Week	Outcomes	Content	Assessment
1	**Whole Number** **MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers**	○ Count forwards and backwards by twos, threes, fives and tens from any starting point ○ Partition two-digit numbers using place value ○ Read and use ordinal names to at least 'thirty-first'	
	Area **(relate to Multiplication and Division)** **MA1-10MG measures, records, compares and estimates areas using uniform informal units**	○ Record areas by referring to the number and type of uniform informal unit used ○ Compare and order surfaces based on area measured using uniform informal units	
2	**Whole Number** **MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers**	○ Count forwards and backwards by twos, threes, fives and tens from any starting point ○ Partition numbers of up to three digits using place value	
	Area **MA1-10MG measures, records, compares and estimates areas using uniform informal units**	○ Record areas by referring to the number and type of uniform informal unit used ○ Compare and order surfaces based on area measured using uniform informal units	
3	**Addition and Subtraction** **MA1-5NA uses a range of strategies and**	○ Recognise and recall combinations of numbers that add to numbers up to 20 ○ Use and record a range of mental strategies for addition and	

	informal recording methods for addition and subtraction involving one- and two-digit numbers	subtraction of one- and two-digit numbers ○ Solve word problems involving addition and subtraction	
	Mass **MA1-12MG measures, records, compares and estimates the masses of objects using uniform informal units**	○ Place objects on either side of an equal-arm balance to obtain a level balance ○ Use an equal-arm balance to compare two objects based on mass	
4	**Addition and Subtraction** **MA1-5NA uses a range of strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers**	○ Make connections between addition and subtraction ○ Use the equals sign to record equivalent number sentences ○ Use and record a range of mental strategies for addition and subtraction of two-digit numbers	
	Mass **MA1-12MG measures, records, compares and estimates the masses of objects using uniform informal units**	○ Use uniform informal units to measure, compare and estimate the masses of objects ○ Record masses by referring to the number and type of uniform informal unit used	
5	**Patterns and Algebra** **MA1-8NA creates, represents and continues a variety of patterns with numbers and objects**	○ Find missing numbers in number sentences involving one operation of addition or subtraction	**Year 1 Assessment** **Year 2 Assessment**
	Data **MA-17SP collect, represent, analyse, interpret and evaluate data, assign and use probabilities, and make sound judgements**	○ Pose questions and collect categorical data ○ Create data displays using lists, tables and picture graphs (one-to-one correspondence) and interpret them	**Week 5: PLAN Data Entry**
6	**Patterns and Algebra** **(relate to Multiplication and Division)**	○ Describe patterns with numbers and identify missing elements	

	MA1-8NA creates, represents and continues a variety of patterns with numbers and objects		
	Data **MA-17SP collect, represent, analyse, interpret and evaluate data, assign and use probabilities, and make sound judgements**	○ Pose questions and collect categorical data ○ Create data displays using lists, tables and picture graphs (one-to-one correspondence) and interpret them	
7	**Multiplication and Division** **MA1-6NA uses a range of mental strategies and concrete materials for multiplication and division**	○ Rhythmic and skip count by twos, fives and tens from zero ○ Model and use repeated addition as a strategy for multiplication	
	Volume and Capacity **MA1-11MG measures, records, compares and estimates volumes and capacities using uniform informal units**	○ Use uniform informal units to measure, compare and estimate capacities ○ Record capacities and volumes by referring to the number and type of uniform informal unit used	
8	**Multiplication and Division** **MA1-6NA uses a range of mental strategies and concrete materials for multiplication and division**	○ Model and use repeated addition as a strategy for multiplication ○ Model and use arrays described in terms of 'rows' and 'columns' as a strategy for multiplication	
	Volume and Capacity **MA1-11MG measures, records, compares and estimates volumes and capacities using uniform informal units**	○ Use uniform informal units to measure and estimate volumes ○ Record capacities and volumes by referring to the number and type of uniform informal unit used	
9	**Fractions and Decimals** **MA1 – 7NA represents and models halves, quarters and eighths**	○ Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections ○ Use fraction notation ½	

	Chance **MA1-18SP recognises and describes the element of chance in everyday events**	○ Identify practical activities and everyday events that involve chance ○ Describe events as 'likely' or 'unlikely' ○ Distinguish between 'possible' and 'impossible' events ○ Identify some events as 'certain' or 'impossible'	
10	**Assessment**	○ **To be based on individual class needs**	**Year 1 Assessment** **Year 2 Assessment** **Week 10: PLAN Data Entry**

S1 Mathematics Scope and Sequence — **Term 4**

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

MA1-1WM describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols

MA1-2WM uses objects, diagrams and technology to explore mathematical problems

MA1-3WM supports conclusions by explaining or demonstrating how answers were

Week	Outcomes	Content	Assessment
1	**Whole Number** **MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers**	○ Read, write and order three-digit numbers ○ Partition numbers of up to three digits using place value ○ Read, write and order three-digit numbers	
	3D Space **MA1-14MG sorts, describes, represents and recognises familiar three- dimensional objects, including cones, cubes, cylinders, spheres and prisms**	○ Recognise that three-dimensional objects look different from different vantage- points ○ Recognise faces of three-dimensional objects as two-dimensional shapes	
2	**Whole Number** **MA1-4NA applies place value, informally, to count, order, read and represent two- and three-digit numbers**	○ Read, write and order three-digit numbers ○ Recognise, count and order Australian coins and notes according to their value	
	3D Space **MA1-14MG sorts, describes, represents and recognises familiar three- dimensional objects, including cones, cubes, cylinders, spheres and prisms**	○ Distinguish between three-dimensional objects and two dimensional shapes ○ Represents three-dimensional objects in models and drawings	

3	**Addition and Subtraction** **MA1-5NA uses a range of strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers**	○ Use and record a range of mental strategies for addition and subtraction of two-digit numbers ○ Solve word problems involving addition and subtraction ○ Record number sentences using drawings, words, numerals and the symbols +, - and =	
	Length **MA1-9MG measures, records, compares and estimates lengths and distances using uniform informal units, metres and centimetres**	○ Use informal units to measure, compare and estimate lengths ○ Record lengths by referring to the number and type of uniform informal unit used	
4	**Addition and Subtraction** **MA1-5NA uses a range of strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers**	○ Use and record a range of mental strategies for addition and subtraction of two-digit numbers ○ Solve word problems involving addition and subtraction ○ Record number sentences using drawings, words, numerals and the symbols +, – and =	
	Length **MA1-9MG measures, records, compares and estimates lengths and distances using uniform informal units, metres and centimetres**	○ Recognise the need for formal units to measure length ○ Uses metres and centimetres to measure and estimate lengths and distances ○ Record lengths using the abbreviations m and cm	
5	**Multiplication and Division** **MA1-6NA uses a range of mental strategies and concrete materials for multiplication and division**	○ Model and use arrays described in terms of ‘rows’ and ‘columns’ as a strategyfor multiplication ○ Model and use groups, arrays and repeated subtraction as strategies for division ○ Record using drawings, words and numerals	**Year 1 Assessment** **Year 2 Assessment** **Week 5: PLAN Data Entry**

	Volume and Capacity **MA1-11MG measures, records, compares and estimates volumes and capacities using uniform informal units**	○ Compare and order objects based on capacity and volume measured using uniform informal units	
6	**Multiplication and Division** **MA1-6NA uses a range of mental strategies and concrete materials for multiplication and division**	○ Model and use arrays described in terms of 'rows' and 'columns' as a strategy formultiplication ○ Model and use groups, arrays and repeated subtraction as strategies for division ○ Record using drawings, words and numerals	
	Volume and Capacity **(Relate to Multiplication and Division)** **MA1-11MG measures, records, compares and estimates volumes and capacities using uniform informal units**	○ Compare and order objects based on capacity and volume measured using uniform informal units	
7	**Fractions and Decimals** **MA1 – 7NA represents and models halves, quarters and eighths**	○ Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections	
	2D Space **MA1-15MG manipulates, sorts, represents, describes and explores two-dimensional shapes, including quadrilaterals, pentagons, hexagons and octagons**	○ Use the terms 'side' and 'vertex' to describe and compare two-dimensionalshapes ○ Identify horizontal, vertical and parallel lines ○ Make symmetrical designs with a variety of materials	
8	**Fractions and Decimals** **MA1 – 7NA represents and models halves, quarters and eighths**	○ Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections ○ Use fraction notation ¼ and 1/8	

	2D Space **MA1-15MG manipulates, sorts, represents, describes and explores two-dimensional shapes, including quadrilaterals, pentagons, hexagons and octagons**	○ Make and draw two-dimensional shapes in different orientations ○ Identify, perform and record the result of one-step 'slides' and 'flips' ○ Identify, perform, describe and record the result of full, half and quarter turns	
9	**Patterns and Algebra** **MA1-8NA creates, represents and continues a variety of patterns with numbers and objects**	○ Recognise, copy, create, continue and describe repeating patterns of objects or symbols ○ Model and describe odd and even numbers ○ Describe patterns with numbers and identify missing elements	**Year 1 Assessment** **Year 2 Assessment** **SEMESTER 1 REPORTS HOME**
	Position **MA1-16MG represents and describes the positions of objects in everyday situations and on maps Interpret simple maps of familiar locations**	○ Represent the position of objects in models, photographs and drawings	
10	**Revisions of Key Concepts**	○ **To be based on individual class needs**	**Week 10: PLAN Data Entry**