

Mathematics Scope &

Sequence

Early 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



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

Short, fast, focused, differentiated lessons focused on early arithmetic strategies will occur daily (TEN) covering addition and subtraction (Mae-5NA) and working mathematically (MAe-1WM, MAe-2WM, MAe-3WM) content.		 The following Time (MAe-13MG) content is covered in short, fast, focused lessons on a daily basis: use terms such as 'daytime', 'night-time', 'yesterday', 'today', 'tomorrow', 'before', 'after', 'next', 'morning' and 'afternoon' sequence events in time recall that there are seven days in a week name and order the days of the week classify weekdays and weekend days relate events to a particular day or time of day, eg 'Assembly is on Tuesday', 'We come to school in the morning' identify events that occur every day, eg 'We have news every day' 			
Week	Outcomes	Content	Assessment		
1	ASSESSMENT				
	irt				
	Whole Number	 Count forwards to 30 	ENTER INITIAL PLAN		
2	MAe-4NA counts to 30, and orders, reads and represents	 Count backwards from a given number in the range of 20-0 Say the number before and after a given number 	DATA		
2	numbers in the range 0 to 20	 Read numbers to at least 20, including zero and represent these using objects (fingers), pictures, words and numerals. 			



Whole Number	 Count forwards to 30 	
numbers in the range 0 to 20		
MAe-4NA counts to 30, and	 Count backwards from a given number in the range of 20-0 	
orders, reads and represents	\circ Say the number before and after a given number	
numbers in the range 0 to 20	\circ Read numbers to at least 20, including zero and represent these using	
	objects (fingers), pictures, words and numerals.	
Whole Number	 Count forwards to 30 from a given number 	Week 5: PLAN Data
	-	Entry Due
numbers in the range 0 to 20		
	 Identify the number before a given number 	
numbers in the range 0 to 20		
	 Communicate the use of numbers through everyday language, actions, 	
	materials and informal recordings (Communicating)	
	 Estimate the number of objects in a group of up to 20 objects, and count to check 	
	 Use 5 as a reference in forming numbers from 6 to 10, eg 'Six is one more than 	
	five'	
	\circ Use 10 as a reference in forming numbers from 11 to 20, eg 'Thirteen is 1	
	group of ten and 3 ones'	
		MAe-4NA counts to 30, and orders, reads and represents numbers in the range 0 to 20 Count backwards from a given number in the range of 20-0 Say the number before and after a given number Read numbers to at least 20, including zero and represent these using objects (fingers), pictures, words and numerals. Whole Number Count backwards from a given number in the range of 20-0 Say the number before and after a given number Count backwards from a given number in the range of 20-0 Say the number before and after a given number Read numbers to at least 20, including zero and represent these using objects (fingers), pictures, words and numerals. Whole Number Read numbers to 30 form a given number Read numbers to 30 form a given number Count backwards from a given number Describe the number before as 'one less than' and the number after as 'one more than' a given number Identify the number after a given number Identify the number before a given number Whole Number MAe-4NA counts to 30, and orders, reads and represents numbers in the range 0 to 20 Read numbers to at least 20, including zero, and represent these using objects (such as fingers), pictures, words and numerals Recognise numbers in a variety of contexts, eg classroom charts, cash register, computer keyboard,



7	Whole Number MAe-4NA counts to 30, and orders, reads and represents numbers in the range 0 to 20	 Recognise the number of objects or dots in a pattern of objects or dots instantly Recognise dice and domino dot patterns (Communicating) Instantly recognise (subitise) different arrangements for the same number, eg different representations of five Recognise that the way objects are arranged affects how easy it is to subitise (Reasoning) 	
8	Whole Number MAe-4NA counts to 30, and orders, reads and represents numbers in the range 0 to 20	 Count with one-to-one correspondence Make correspondences between collections, eg 'I have four counters, you have seven counters. So you have more counters than me' Compare and order numbers and groups of objects (Problem Solving, Reasoning) Use the term 'is the same as' to express equality of groups (Communicating, Reasoning) 	Whole Number Assessment
9	Length MAe-9MG describes and compares lengths and distances using everyday language	 Identify the attribute of 'length' as the measure of an object from end to end Use everyday/ comparative language to describe length, eg long, short, high, tall, low, distance, eg near, far, nearer, further, closer (Communicating) Compare lengths directly by placing objects side-by-side and aligning the ends (Communicating, Reasoning) Compare lengths indirectly by copying a length Compare and record length comparisons informally 	Length Assessment
10	Patterns and Algebra MAe-8NA recognises, describes and continues repeating patterns	 Sort and classify familiar objects and explain the basis for these classifications (Communicating, Reasoning) Recognise that a group of objects can be sorted and classified in different ways Recognise, copy and continue repeating patterns using sounds and/or actions 	Week 10: PLAN Data Entry DUE



	Patterns and Algebra	 Describe a repeating pattern made from shapes by referring to its distinguishing 	Patterns and
11	MAe-8NA recognises, describes and continues	features, eg 'I have made my pattern from squares. The colours repeat. They go red, blue, red, blue.'	Algebra Assessment
	repeating patterns	 Recognise, copy, continue and create repeating patterns using shapes, objects or pictures 	
		 Create or continue a repeating pattern using simple computer graphics (Problem Solving) 	
		\circ Recognise when an error occurs in a pattern and explain what is wrong	
		(Communicating, Reasoning)	



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

The following **Time (MAe-13MG)** content is covered in short, fast, focused lessons on a daily basis: Short, fast, focused, differentiated lessons - use terms such as 'daytime', 'night-time', 'yesterday', 'today', 'tomorrow', 'before', 'after', focused on early arithmetic strategies will occur 'next', 'morning' and 'afternoon' daily (TEN) covering addition and subtraction - sequence events in time (Mae-5NA) and working mathematically (MAe-- recall that there are seven days in a week - name and order the days of the week 1WM, MAe-2WM, MAe-3WM) content. - classify weekdays and weekend days - relate events to a particular day or time of day, eg 'Assembly is on Tuesday', 'We come to school in the morning' - identify events that occur every day, eg 'We have news every day' Week **Outcomes** Assessment Content Use direct comparison to decide which shape has a larger area and **EAS Assessment** 0 Area explain their reasoning using everyday language (Communicating, MAe-10MG describes and compares Area Assessment Reasoning) areas using everyday language Identify the attribute of 'area' as the measure of the amount of surface Cover surfaces completely with smaller shapes 0 Compare two areas directly, eg superimposing or super positioning two 0 surfaces **Addition and Subtraction** • Create and recognise combinations for numbers to at least 10 **MAe-5NA combines, separates and** Record addition informally using drawings, words and numerals 0 2 compares collections of objects, describes using everyday language,



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	and records using informal methods		
3	Addition and Subtraction MAe-5NA combines, separates and compares collections of objects, describes using everyday language, and records using informal methods	 Create and recognise combinations for numbers to at least 10 Record addition informally using drawings, words and numerals Model subtraction by separating and taking away part of a group of objects 	
4	Addition and Subtraction MAe-5NA combines, separates and compares collections of objects, describes using everyday language, and records using informal methods	 Use concrete materials or fingers to model and solve simple subtraction problems Use visual representations of numbers to assist with subtraction, eg ten frames 	
5	Addition and Subtraction MAe-5NA combines, separates and compares collections of objects, describes using everyday language, and records using informal methods	 Count forwards by ones to add and backwards by ones to subtract Record addition and subtraction informally using drawings, words and numerals Investigate different methods of adding and subtracting used in various cultures, eg Aboriginal and Torres Strait Islander methods involving spatial patterns and reasoning, Asian counting tools such as the abacus (Communicating, Problem Solving) 	Week 5: PLAN Data Entry Due EAS Assessment Addition and Subtraction Assessment
6	2D Space MAe-15MG manipulates, sorts and describes representations of two- dimensional shapes, including circles, triangles, squares and rectangles,	 Identify and draw straight and curved lines and describe them using everyday language Identify, represent and name circles, triangles, squares and rectangles in pictures and the environment (Problem Solving) Sort and describe 2D shapes according to their features (Communicating, 	2D Space Assessment



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	using everyday language	 Reasoning) Manipulate circles, triangles, squares and rectangles to make pictures and describe their features using everyday language (Problem Solving) Draw closed two-dimensional shapes and recognise the importance of drawing the shapeclosed (Communicating, Reasoning) 	
7	Multiplication and Division MAe-6NA groups, shares and counts collections of objects, describes using everyday language, and records using informal methods	 Use the term 'group' to describe a collection of objects Model equal groups Label the number of objects in a group Recognise groups that are not equal in size 	
8	Multiplication and Division MAe-6NA groups, shares and counts collections of objects, describes using everyday language, and records using informal methods	 Recognise, copy, continue, create and describe increasing and decreasing number patterns 	
9	Multiplication and Division MAe-6NA groups, shares and counts collections of objects, describes using everyday language, and records using informal methods	 Describe a repeating pattern made from shapes by referring to its distinguishing features, eg 'I have made my pattern from squares. The colours repeat. They go red, blue, red, blue.' Recognise, copy, continue and create repeating patterns using shapes, objects or pictures Create or continue a repeating pattern using simple computer graphics (Problem Solving) Recognise when an error occurs in a pattern and explain what is wrong (Communicating, Reasoning) 	Multiplication Division Assessment
10	3D Space MAe-14MG manipulates, sorts and represents three-dimensional objects and describes them using	 Recognise and use informal names for three-dimensional objects, e.g. box, ball. Describe the features of familiar three-dimensional objects using everyday language, e.g. flat, round, curved 	3D Space Assessment REPORTS HOME



everyday language	 Predict and describe the movement of objects, e.g. 'This will roll because it is round' (Problem Solving) Manipulate and describe a variety of objects found in the environment (Communicating, Reasoning) Sort three-dimensional objects and explain the attributes used to sort them, e.g. colour, size, shape and function (Communicating, Reasoning) Make models using a variety of three-dimensional objects and describe the models, e.g. 'I made a model of a person using a ball and some 	Week 10: PLAN Data Entry DUE
	the models, e.g. 'I made a model of a person using a ball and some blocks'	



Term 3

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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

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Week	Outcomes	, , , , , , , , , , , , , , , , , , ,	Content	Assessment	
1	Addition MAe-5NA combines, separat compares collections of obje using everyday language, an informal methods	ects, describes	 Combine two or more groups of objects to model addition Count forwards by ones to add Use concrete materials or fingers to model and solve simple addition problems Explain or demonstrate how an answer was obtained (Communicating, Reasoning) Record addition informally using drawings, words and numerals Create and recognise combinations for numbers to at least 10, eg 'How many more make 10?' 	EAS Assessment	



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	Subtraction	0	Compare two groups of objects to determine 'how many more'	Addition
	MAe-5NA combines, separates and compares	0	Model subtraction by separating and taking away part of a	Subtraction
	collections of objects, describes using everyday		group of objects	Assessment
	language, and records using informal methods	0	Count backwards by ones to subtract	
2		0	Use concrete materials or fingers to model and solve simple	
2			subtraction problems	
		0	Explain or demonstrate how an answer was obtained	
			(Communicating, Reasoning)	
		0	Record subtraction informally using drawings, words and	
			numerals	
	Multiplication	0	Use the term 'group' to describe a collection of objects	
	MAe-6NA groups, shares and counts collections		and explain how answer was obtained	
	of objects, describes using everyday language,		(Communicating, Reasoning)	
2	and records using informal methods	0	Model groups using concrete resources and label the number	
3			of objects in a group	
		0	Use arrays to represent equal groups as rows of objects	
		0	Recognise groups that are not equal in size	
		0	Investigate, model and record equal groups	
	Division	0	Understand that sharing involves equal groups	Multiplication and
	MAe-6NA groups, shares and counts collections	0	Use grouping and sharing mats to help share quantities of	Division Assessment
4	of objects, describes using everyday language,		objects equally between two groups	
-	and records using informal methods	0	Share concrete materials to solve problems and record findings	
	Time	0	Use terms such as 'daytime', 'night-time', 'yesterday',	Week 5: PLAN
		č	'today', 'tomorrow', 'before', 'after', 'next', 'morning'	Data Entry Due
5	MAe-13MG sequences events, uses everyday		and 'afternoon' sequence events in time	
5	language to describe the durations of events,	0	Compare the duration of two events using everyday language,	
	and reads hour time on clocks	Ũ	eg 'It takes me longer to eat my lunch than it does to clean my	



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			teeth' (Communicating)	
		0	Describe events that take 'a long time' and events that take 'a short time'	
		-		
		0	Recall that there are seven days in a week (Communicating)	
		0	Name and order the days of the week	
		0	Classify weekdays and weekend days	
	Time	0	Relate events to a particular day or time of day, eg 'Assembly	Time Assessment
	MAe-13MG sequences events, uses everyday		is on Tuesday', 'We come to school in the morning'	
	language to describe the durations of events,	0	Identify events that occur every day, eg 'We have news every	
	and reads hour time on clocks		day' (Communicating)	
		0	Read analog and digital clocks to the hour using the term	
6			'o'clock'	
		0	Describe the position of the hands on an analog clock when	
			reading hour time read digital clocks to the hour using the	
			term 'o'clock'	
		0	Describe the position of the hands on an analog clock when	
			reading hour time	
	Fractions and Decimals	0	Describe how to make equal parts using terms	Fractions &
	MAe-7NA describes two equal parts as halves		such as sharing, two equal parts, same	Decimals
7			(Communicating)	Assessment
		0	Use terms such as half, halves, equal when comparing	
			halved objects, ie, these two halves are equal	
	Position	0	Describe the position of an object in relation to	Position
			themselves using everyday language, suchas 'between',	Assessment
	MAe-16MG describes position and gives and		'next to', 'behind' or 'inside', eg 'The table is behind me'	
8	follows simple directions using everyday	0	Describe the positions of objects in relation to themselves	
	language		using the terms 'left' and 'right', eg 'The tree is on my right'	
		0	Use the terms 'left' and 'right' when referring to familiar	
			tasks, eg 'I hold my pencil in my right hand'	



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		 (Communicating) Give and follow simple directions to position an object or themselves, eg 'Put the blue teddy in the circle' Follow directions to a point or place, including in mazes and games (Reasoning) Direct simple computer-controlled toys and equipment to 	
		 follow a path (Communicating) Participate in movement games involving turning and direction (Reasoning) 	
9	Data MAe-17SP represents data and interprets data displays made from objects	 Group objects according to characteristics to form a simple data display and compare the sizes of groups of objects by counting (Reasoning) Arrange objects in rows or columns according to characteristics to form a data display and interpret a simple collection of data (Communicating, Reasoning) Answer yes/no questions to collect information and interpret information presented in a display (Communicating) 	Data Assessment
10	Revision of Key Concepts	 Base this on your class needs 	Week 10: PLAN Data Entry DUE



Term 4

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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

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lessons foc strategies v addition ar working ma	et, focused, differentiated used on early arithmetic will occur daily (TEN) covering ad subtraction (Mae-5NA) and athematically (MAe-1WM, MAe- e-3WM) content.	 The following Time (MAe-13MG) content is covered in short, fast, focused lessons on a daily basis: use terms such as 'daytime', 'night-time', 'yesterday', 'today', 'tomorrow', 'before', 'after', 'next', 'morning' and 'afternoon' sequence events in time recall that there are seven days in a week name and order the days of the week classify weekdays and weekend days relate events to a particular day or time of day, eg 'Assembly is on Tuesday', 'We come to school in the morning' identify events that occur every day, eg 'We have news every day' 		
Week	Outcomes	Content	Assessment	
1	Whole Number MAe-4NA counts to 30, and orders, reads and represents numbers in the range 0 to 20	 Count forwards to 30 from a given number Count backwards from a given number in the range 0 to 20 Identify the number before and after a given number read Use the ordinal names to at least 'tenth' Use 5 as a reference in forming numbers from 6 to 10, eg 'Six is one more than five' Use 10 as a reference in forming numbers from 11 to 20, eg 'Thirteen is 1 group of ten and 3 ones' Recognise the number of objects or dots in a pattern of objects or dots instantly, eg recognise dice and domino dot patterns (Communicating) 	EAS Assessment	



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	Whole Number	 Instantly recognise (subitise) different arrangements for the 	Whole Number
2	MAe-4NA counts to 30, and	same number, eg different representations of five	Assessment
	orders, reads and represents	\circ Recognise that the way objects are arranged affects how easy it is to subitise	
	numbers in the range 0 to 20	(Reasoning)	
		 Use the language of money 	
		 Use the language of money in everyday contexts, eg coins, notes, cents, dollars 	
		 Recognise that there are different coins and notes in our monetary system 	
		\circ Exchange money for goods in a play situation (Problem Solving)	
3	Fractions and Decimals	• Share an object by dividing it into two equal parts, eg cutting a piece of ribbon	Fractions and
	MAe-7NA describes two equal	into halves	Decimals
	parts as halves	 Describe how to make equal part (Communicating) 	Assessment
		 Recognise that halves are two equal parts 	
		\circ Explain why two parts of one whole are or are not halves, eg 'The two parts	
		are not halvesbecause they are not the same' use the term 'half' accurately	
		in everyday situations (Communicating, Reasoning)	
		 Record halves of objects using drawings 	
	2D Space	 Sort two-dimensional shapes according to features such as size and 	2D & 3D Space
	MAe-15MG manipulates,	shape (Communicating, Reasoning)	Assessment
	sorts and describes	 Manipulate circles, triangles, squares and rectangles, and describe their 	
	representations of two-	features using everyday language, eg 'A square has four sides' (Problem	
	dimensional shapes, including	Solving)	
4	circles, triangles, squares and	• Make representations of two-dimensional shapes using a variety of materials,	
	rectangles, using everyday	including paint, paper, body movements and computer drawing tools	
	language	 Make pictures and designs using a selection of shapes, eg make a house 	
		from a square and a triangle (Communicating)	



3D Space	 Sort three-dimensional objects and explain the attributes used to sort them, eg colour, size, shape, function (Communicating, Reasoning) 	
MAe-14MG manipulates, sorts and represents three- dimensional objects and describes them using everyday language	 Recognise how a group of objects has been sorted, eg 'These objects are all pointy' (Communicating, Reasoning) Recognise and use informal names for three-dimensional objects, eg box, ball Predict and describe the movement of objects, eg 'This will roll because it is round' Predict the building and stacking capabilities of various three-dimensional objects (Reasoning) 	
Mass MAe-12MG describes and compares the masses of objects using everyday language	 Identify the attribute of 'mass' as the amount of matter in an object Use everyday language to describe objects in terms of their mass, eg heavy, light, hard to push, hard to pull Predict which object would be heavier than, lighter than, or have about the same mass as another object and explain reasons for this prediction (Communicating, Reasoning) Compare two masses directly by hefting, eg 'This toy feels heavier than that one' Use comparative language to describe mass, eg heavier, lighter, heaviest, lightest(Communicating) Use a tool to determine the mass of an object. Investigate the use of hefting in practical situations, eg the practice used by Aboriginal people of hefting duck eggs to determine whether ducklings will be male or female (Problem Solving) Compare and describe two masses, such as by pushing or pulling 	Week 5: PLAN Data Entry Due Mass Assessment

Volume and Capacity	 Use direct and indirect comparisons to decide which holds more, and explain their reasoning using everyday language identify the attribute of 	Volume and Capacity
MAe-11MG describes an	'capacity' as the amount of liquid a container can hold	Assessment
compares the capacities	of • Fill and empty containers using materials such as water and sand	Assessment
containers and the volur	• Use the terms 'full', 'empty' and 'about half-full' compare the capacities of	
of objects or substances	two containers directly by filling one and pouring into the other (Reasoning)	
using everyday language	 Compare the capacities of two containers indirectly by pouring their 	
	contents into two other identical containers and observing the level reached	
6	by each (Communicating, Reasoning)	
U	 Establish that containers of different shapes may have the same capacity, eg 	
	a tall narrow container may hold the same amount as a short wide container	
	\circ Identify the attribute of 'volume' as the amount of space an object or	
	substance occupies	
	 Stack and pack blocks into defined spaces, eg boxes (Reasoning) 	
	• Compare the volumes of two piles of material directly by filling two identical	
	containers, eg 'This pile of rice has a larger volume as it takes up more space	
	in the container'	
Length	 Use direct and indirect comparisons to decide which is longer, and 	-
MAe-9MG describes and	explain their reasoning using everyday language	
compares lengths and	\circ Identify the attribute of 'length' as the measure of an object from end to end	
distances using everyday	make and sort long and short constructions from concrete materials	
language	 Identify an object that is longer or shorter than another, eg 'Find an object 	
	longer than this pencil' (Communicating)	
7	 Predict whether an object will be longer or shorter than another object and 	
•	explain the reasons for this prediction (Communicating, Reasoning)	
	 Compare lengths indirectly by copying a length, eg using the same strip of 	
	paper to comparelengths	
	 Record length comparisons informally by drawing, tracing, or cutting 	
	and pasting, and by using words and numerals	



8	Patterns and Algebra MAe-8NA recognises, describes and continues repeating patterns	 Recognise that a group of objects can be sorted and classified in different ways (Communicating, Reasoning) Recognise, copy and continue repeating patterns using sounds and/or actions Recognise, copy, continue and create repeating patterns using shapes, objects or pictures Recognise, copy, continue and create a number pattern 	Patterns and Algebra Assessment
9-10	Revision of Key Concepts	\circ Base this on your class needs	Week 9: REPORTS HOME Week 10: PLAN Data Entry Due