

Para Meadows Numeracy Continuum K-12



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		Cluster 1	Cluster 2	Cluster 3	Cluster 4 Emergent	Cluster 5 Perceptual	Cluster 6 Figurative	Cluster 7 Counting On and Back	Cluster 8	Cluster 9	Cluster 10	Cluster 11	Cluster 12
	Whole Number	Exposed to topic related activities and songs Shows recognition of familiarand	Smiles during counting experiences. Turns in the direction of staff or peer who is counting and modelling	Intentionally engages in counting experiences. Chooses between two objects. Begins to explore the concept of same and different. MAE -4NA MALS-4NA, MALS-5NA	Starts to use number language randomly e.g. ordinals 1st to 10th and position (first, last, next, before, after) Matches numbers. Participates in counting experiences. Attempts to write numbers by making marks on paper. MAe-4NA MALS-4NA, MALS-5NA Stage 6-1.1, Stage 6-1.4	Counts ordinals 1st-10th. Recognises numbers 0-10.	31st (calendar). Counts backwards from 20-0. Orders numbers from 0-10. Recognises and writes numerals 0-20. Counts on from a given number between 0-20. Recognises numbers on a number line. Counts and labels groups of objects. Starts from one to find a total. MAe-4NA	Counts by 2's, 5's and 10's. Counts forwards and backwards to and from 50. Counts on from a given number between 0 and 50. Recognises and writes numerals 0-50. Orders numbers 0-50. Writes number words 0-20. Begins to understand odd and even numbers. Exposed to place value of units, tens and hundreds. Uses a number line. MA1-4NA MALS-5NA, MALS-6NA, MALS-7NA Stage 6-1.3	Counts backwards by 2's, 5's and 10's. Counts forwards and backwards to and from 100. Counts on from a given number between 0 and 100. Recognises and writes numbers 0-100. Orders numbers 0-100. Writes numbers 0-50.	ten and hundreds. MA1-4NA MALS-6NA, MALS-7NA Stage 6-1.5	Recognises and writes 4 digit numbers. Reads and orders numbers up to 4 digits. Records numbers up to 4 digits in expanded form. MA2-4NA MALS-6NA, MALS-7NA Stage 6-1.5	Recognises and writes 5 digit numbers. Reads and orders numbers up to 5 digits. Records numbers up to 5 digits in expanded form. MA2-4NA MALS-6NA, MALS-7NA Stage 6-1.5	Recognises and writes all numbers. Reads and orders all numbers. MA3-4NA MALS-6NA, MALS-7NA Stage 6-1.5
	Money		Reaches for coins and notes. Smiles during counting experiences. Turns in the direction of staff or peer who is modelling counting. MAE-4NA MALS-12NA Stage 6-5.2	language through play with coins. Intentionally engages in tactile	Matches coins and notes. MAe-4NA MALS-12NA Stage 6-5.2	Recognises 5c and 10c coins based on face value. Begins to understand that money is used in exchange for purchasing items. MAe-4NA MALS-12NA Stage 6-5.1, Stage 6-5.2	Recognises 5c, 10c and 20c coins based on face value. Understands that money has a value. MAe-4NA MALS-12NA Stage 6-5.2	Recognises 5c, 10c, 20c, 50c, \$1 and \$2. Recognises the symbol for dollars and cents. Counts and sorts money based on face value. Understands that different coins have different values. MA1-4NA MALS-12NA, MALS-13NA Stage 6-5.2	Writes and recognises written amounts of money. MA1-4NA MALS-14NA Stage 6-5.3	Recognises that total amounts can be made using different denominations,	including calculating equivalent amounts using different	services.For example, showing two washing powders with prices e.g.	Creates a simple budget. MA3-5NA MALS-17A Stage 6-5.5
	Addition and Subt		Reaches for tactile numbers or representations of addition and subtraction. Explores addition and subtraction using tactile objects. Smiles during addition and subtraction experiences. Turns in the direction of staff or peer exploring addition and subtraction. MAe-5NA MALS-10NA Stage 6-2.1	language by grouping objects through play. Intentionally engages in tactile experiences. Starts to investigate multiple groups. MAe-5NA MALS-10NA Stage 6-2.1	Mimics counting and making groups during modelled addition and subtraction experiences. Copies making groups of items.	Combines two or more groups of objects to model addition. Records addition informally using objects and drawings. Attempts to take part of a group away to model subtraction. Uses concrete items when exploring addition and subtraction. Begins to understand the language of 'group', 'combines' and 'takeaway'. Introduced to symbols of addition and subtraction. MAe-5NA MALS-10NA Stage 6-2.1	how many more. Independently creates and identifies groups. Uses symbols of addition and subtraction but not necessarily correctly. Understands language associated with addition and subtraction such as 'add', 'plus', 'takeaway', 'equals'. Begins to explore using a calculator.	Uses the language of 'add', 'plus', 'equals' etc. Uses concrete objects for addition and subtraction of single-digit numbers. Recognises combinations of numbers that add two numbers up to 10.	numbers with trading and carrying. Uses concrete objects for addition and subtraction of single digit numbers with carrying or trading. Recognises combinations of numbers that add two numbers up to 20. Makes connections between addition		strategies for addition and subtraction of 2 digit and 3 digit numbers. Uses inverse operations to check addition and subtraction calculations. Uses the formal written algorithm for		written and calculator strategies for addition and subtraction of numbers
ons and recognise patterns.	ultiplication and Division	Experiences topic related books ar objects by mouthing them, patting them, carrying them around. Focuses attention briefly on hands Moves hands over or through some sensory material. Coactively holds an object briefly when placed in their hands. Number and Algebra: MAe-4NA; MAe-5NA; MAe-6NA; MAe-7NA; MAe-8NA Measurement and Geometry: MAe-9MG; MAe-10MG; MAe-11MG; MA-12MG; MAe-13MG; MAe-14MG; MAe-15MG; Statistics and Probability: MAe-17SP; MA-e18SP	Reaches for tactile objects. Touches object placed in hand. Smiles during multiplication and vision experiences. Turns in the direction of staff or peer exploring multiplication and division. MAe-6NA MALS-11NA Stage 6-2.1	language by grouping objects through play. Intentionally engages in tactile experiences by reaching for part of a group. Starts to investigate multiple groups. Chooses between two groups. Investigates modelled equal groups. MAe-6NA	Exposed to the term 'group' when used to describe a collection of objects. Copies making groups of items.		items. Exposed to multiplication and division symbols. Uses objects as a strategy for multiplication. Records grouping for multiplication using numerals.	grouping and sharing including drawing and marks. Uses the term 'group' and 'share'.	and skip counting as a strategy for multiplication. Records grouping using words and numerals. Recognises and uses multiplication and division symbols. Uses a calculator to perform a given operation. MA1-6NA MALS11-NA	x10. Uses and models repeated	Recalls and uses multiplication facts up to 10 x 10. Relates multiplication facts to their inverse division facts. Uses the formal algorithm for multiplication by 1 and 2 digit numbers. MA2-6NA MALS11-NA Stage 6 2.1, Stage 6-2.4	sentences on one side of equation involving multiplication and division. Uses mental strategies and informal	Finds missing numbers in number sentences on one or both sides of the equation. Solves word problems and records the strategy used (mental, written or calculator). Interprets remainders in division problems. Recognises and uses grouping symbols. Applies the order of operations in calculations. MA3-6NA MALS11-NA Stage 6-2.2, Stage 6-2.3, Stage 6-2.4
They understand the connections between operations and the connections between operations.	Fractions		Smiles during fraction experiences. Explores fractions using tactile objects. Turns in the direction of staff or peer discussing fractions.	language through play. Intentionally engages in tactile	Exposed to the language of a half. Participates in fraction experiences. Matches halves of a picture to a whole picture. MAe-7NA MALS-8NA Stage 6-1.6	Experiments with half using objects and pictures i.e such as toast in half, butter on half (not always in two equa parts). MAe-7NA MALS-8NA Stage 6-1.6	Records halves of objects using drawings. Shares an object by dividing it into two equals parts such as cutting toast in half, cutting apple in half. Understands and uses language of	one of two equal parts of a whole. Recognises when two parts are equal or not equal. Begins to use fraction notation for	parts of whole objects, shapes and collections. Is exposed to fraction notation for quarters 1/4and eighths 1/8. MA1-7A MALS-8NA, MALS-9NA Stage 6-1.6	Uses the fraction notation for half 1/2 Recognises, describes and represents quarters and eighths of whole objects, shapes and collections. Represents half on a number line from 0 - 1. MA1-7NA MALS-8NA, MALS-9NA Stage 6-1.6	1/4 and eighths 1/8. Model and represent fractions and denominators 2, 3, 4, 5 and 8. Count by halves including mixed numbers. MA2-7NA	Apply place value system to represent tenths and hundredths as decimals. Make connections between fraction and decimal notation. Model, compare and represent decimals. Represent decimals on number lines. MA2-7NA MALS-9NA	improper fractions. Models and represents strategies to add and subtract fractions with the same denominator. Compares, orders and represents decimals with up to two decimal places. Determines, generates and records equivalent fractions.
	Patterns and Algebra		Explores patterns and algebra using tactile objects. Smiles during pattern and algebra	language through play. Intentionally engages in tactile experiences through play. Exposed to patterns and the language used to describe a pattern	Sorts and classifies objects into groups based on one attribute e.g. colour, size, shape etc. Understands the language of the same and different. MAe-8NA MALS-18NA Stage 6-4.1	Recognises, copies and continues basic repeating patterns of objects and drawings with a maximum of two attributes e.g. red, blue, red, blue. MAe-8NA MALS-18NA Stage 6-4.1		patterns. Recognises, copies and continues repeating patterns of objects or symbols.	more than two attributes and number patterns. Models or describes odd and even numbers. Describes patterns with numbers and identifies missing elements.	decreasing number patterns. Finds missing numbers in number sentences involving addition and subtraction on one or both sides of the equals sign.	Identifies odd and even numbers of up to four-digits. Recognises, continues and describes number patterns resulting from performing multiplication. MA2-8NA MALS-19NA Stage 6-4.1	addition and multiplication).	describes geometric and number patterns in words. Finds missing numbers in number
	Length		Smiles during length experiences. Explores length using tactile objects. Turns in the direction of staff or peer discussing length. MAe-9MG	language through play with materials used for measuring length. Intentionally engages in tactile experiences of measuring length. Exposed to the language of 'longer/shorter', 'big/little', 'short/tall', 'bigger/smaller'. MAe-9MG	Starts to become familiar with and use length and distance terms. Starts to use language of longer/shorter, big/little, short/tall, bigger/smaller. Uses matching to identify 'longer than', 'shorter than', 'same length'. MAe-9MG MALS-26MG Stage 6-6.1	objects side by side. MAe-9MG	others e.g. "make a long, thin snake". Exposed to metres and centimetres to measure and estimate lengths and distances. MAe-9MG MALS-26MG	using informal units.	millimetres to measure, compare, order and estimate lengths. Selects and uses appropriate scaled instruments to measure and compare lengths. Recognises that there are 100cm in a metre. MA1-9MG	of 2D shapes. Uses a scaled instrument to measure and compare temperatures. Records temperatures using the symbol for degrees. MA2-9MG MALS-25MG, MALS-26MG Stage 6-6.4	Recognises parts of a 3D object associated with length, that can be measured. Converts between metres, centimetres and millimetres. Uses kilometre to measure length and distance. Selects and uses appropriate instruments and units to measure length. Records length and distance using km, m, cm and mm. MA2-9MG MALS-25MG, MALS-26MG Stage 6-6.6	Converts between kilometres, metres, centimetres and millimetres. Records length and distances using decimal notation to two decimal places.	Solves problems involving length and
	Area		Explores area using tactile objects. Smiles during area experiences. Turns in the direction of staff or peer discussing area. MAe-10MG MALS-29MG Stage 6-6.1	through play with materials used for measuring area. Intentionally engages in tactile experiences of measuring area. Exposed to the language of area such as 'bigger', 'smaller', 'same as'. MAE-10MG MALS-29MG Stage 6-6.1	as 'bigger than', 'smaller than' and 'same as' but not necessarily accurately. Responds to oral questions from staff e.g. "Which table is bigger?" MAe-10MG MALS-29MG Stage 6-6.1	Identifies area as a measure of the amount of surface. Describes area using everyday language including comparatives. MAe-10MG MALS-29MG Stage 6-6.1	comparison such as placing one shape over another. Predicts whether a surface will be bigger or smaller than another. Records comparisons of area informally. MAe-10MG MALS-29MG Stage 6-6.1	number and type of uniform informal unit used. Compares and orders surfaces based on area measured using uniform informal units of regular surfaces. Attempts to use square centimetres and square metres to measure and estimate rectangular and square areas. Recognises the need for formal units to measure area. MA1-10MG MALS-25MG; MALS-29MG Stage 6-6.1, Stage 6-6.2	its abbreviation for measuring area e.g. cms, ms Uses square centimetres and square metres to measure and estimate rectangular and square areas. Records lengths using the abbreviations cm and m. MA2-10MG MALS-25MG; MALS-29MG Stage 6-6.2	centimetres and square metres. Estimates the areas of everyday objects and checks these using a measuring device. MA2-10MG MALS-25MG; MALS-29MG Stage 6-6.4, Stage 6-6.6	kilometres and hectares to measure area. Records using the abbreviations kms and ha. MA3-10MG MALS-25MG; MALS-29MG Stage 6-6.4, Stage 6-6.6	records the strategy in words. Develop a strategy to find areas of triangles and record the strategy in words. MA3-10MG MALS-29MG Stage 6-6.6	rectangles (including squares) and triangle. MA3-10MG MALS-29MG Stage 6-6.5, Stage 6-6.6



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		Cluster 1	Cluster 2	Cluster 3	Cluster 4 Emergent	Cluster 5 Perceptual	Cluster 6 Figurative	Cluster 7 Counting On and Back	Cluster 8	Cluster 9	Cluster 10	Cluster 11	Cluster 12	
	Volume and Capacity	Exposed to topic related activities and songs Shows recognition of familiarand favourite objects or activities by vocalising or gesture. Makes eye contact. Experiences and tolerates being shown topic related books. Experiences and tolerates sensor stimulus related to topic content. Experiences topic content through touching and playing with concrete material. Experiences topic related books a	Reaches for tactile representations of volume and capacity. Explores volume and capacity using tactile objects. Smiles during volume and capacity experiences. Turns in the direction of staff or peer discussing volume and capacity. MAe-11MG MALS-28MG Stage 6-6.1	and containers that can be filled with liquid or objects. Exposed to the language of volume and capacity such as 'full' and 'empty'.	Participates in measuring activities. Starts to use the language 'more' and 'less than', 'full' or 'empty' but not necessarily correctly. MAe-11MG MALS-28MG Stage 6-6.1		and 'smaller'. Compares capacities of containers	units of measure such as cups to fill a bucket, teaspoon or cup when preparing food . Exposed to the language of 'millilitres' and 'litres'. MA1-11MG MALS-25MG, MALS-28MG	a capacity informally. Begins to recognise the need for formal units of measure.	of measurement for capacity and volume. Uses and records litres using (L). Orders a variety of containers with	MALS-25MG, MALS-28MG	their unit of measurement. MA3-11MG	Converts between litres and millilitre Uses cubic metres and centimetres is measure and estimate volume. Records volumes using the abbreviations cme and me. MA3-11MG MALS-28MG Stage 6-6.1, Stage 6-6.2	
res and 3D objects; comparing and constructing noosing appropriate units.	Mass		mass.	such as 'heavy' and 'light'.	Participates in free play with different materials used for balancing including blocks, marbles and beads. Starts to use the comparative language of mass 'heavier' and 'lighter' but not necessarily correctly. Compares objects of extreme difference through free play. Starts to interact with equal arm balance equipment. MAe-12MG MALS-27MG Stage 6-6.1	Exposed to or modelled the use of equal arm balance or scales (different types of scales). Uses the language of mass such as 'heavier' and 'lighter'. MAe-12MG MALS-27MG Stage 6-6.1	t 'heavier' and 'lighter'. Compares two masses using direct	Uses and selects appropriate informa units to measure the mass of objects. Sorts objects based on their mass.		•	measure, compare and estimate mass. Uses and records mass using grams (g). Compares the mass of 2 or 3 objects by submerging each in water.	instruments and units to measure	•	
indents develop an understanding of size, shape, position and movement of 2D figure figures and objects. They make measurements of quantities, cho	Time		time. Explores time using tactile objects. Smiles during time experiences. Turns in the direction of staff or peer discussing time. MAe-13MG MALS-20MG, MALS-21MG Stage 6-3.1	f Engages in free play with digital and analogue clocks. Aware that a timer or buzzer has gone off. (Not necessarily stopping the activity). Exposed to the language of describing time e.g. 'day/night', 'before/now/after', 'longer/shorter', 'first/this/then', 'today/tomorrow/yesterday'. Exposed to language associated with the 'days of the week', 'months', 'year' and 'seasons'. Starts to use the language of describing time e.g. 'day/night', 'before/now/after', 'longer/shorter', 'first/this/then', 'today/tomorrow/yesterday'. Starts to use the language associated with the 'days of the week', 'months', 'year' and 'seasons'. MAe-13MG MALS-20MG, MALS-21MG	is used to describe time e.g. 'before/now/after', 'longer/shorter', 'day/night', 'today/tomorrow/yesterday'. Understands sequencing of 2-3 activities e.g. breakfast, get dressed and brush teeth. Responds to a 'first/then' instruction. Exposed to telling time on digital and analog clocks. Aware that a timer or buzzer has gone off and responds by ceasing or changing the activity. MAe-13MG MALS-20MG, MALS-21MG Stage 6-3.2	approximation e.g. 'almost', 'about', 'nearly', 'not quite' and 'soon'. Uses everyday language to describe time e.g. 'before/now/after', 'longer/shorter', 'day/night', 'today/tomorrow/yesterday. Sequence 2-3 activities using every day language or visuals e.g. breakfast, get dressed and brush teeth. Begins to understand that clocks	weekends. Uses the language associated with days of the 'week', 'months' and 'seasons'. Exposed to telling time on the hour on digital and analogue clocks, including language associated with duration e.g. 'seconds', 'minutes', 'hours' and 'days'.	Uses the calendar to identify the day and determine the number of days in each month, including special events e.g. birthdays. Tells time on the hour on digital and analogue clocks, using the term o'clock. Exposed to half hours. MA1-13MG	duration in months, weeks and days. Tells time to the half hour. Exposed to the concept of a quarter of an hour, using the language of 'past' and 'to'.	'to'. Using and understanding the language 'mintue' and 'second'. Recognises the coordinated movements of the hands of a clock. Is exposed to the language of 'am'	Reads time to the minute using digital notation and the terms 'past' and 'to', including 24 hour time and 'am' and 'pm'. Converts between seconds, minutes, hours and days. MA2-13MG MALS-22MG Stage 6-3.5, Stage 6-3.6	digital notation and the terms past and to, including 24 hour time and 'am' and 'pm'. Reads and interprets simple timetables, timelines and calendars,	Converts between 12 and 24 hour time. Determine and compare the duration of events. Interpret and use timetables, e.g. public bus and train. Draws and interprets timelines using a given scale. MA3-13MG MAL-24MG, MAL-24MG Stage 6-3.7, Stage 6-3.9, Stage6-3.10	
₹S	Two-dimensional Space	objects by mouthing them, patting them, carrying them around. Focuses attention briefly on hands. Moves hands over or through some sensory material. Coactively holds an object briefly when placed in their hands. Number and Algebra: MAe-4NA; MAe-5NA; MAe-6NA; MAe-7NA; MAe-8NA Measurement and Geometry: MAe-9MG; MAe-10MG; MAe-11MG; MAe-12MG; MAe-13MG; MAe-14MG; MAe-15MG; MAe-16MG Statistics and Probability: MAe-17SP; MA-e18SP	2D space. Explores 2D space using tactile objects.		1:1 correspondence. Sorts and matches circles, squares, triangles and rectangles. MAe-15MG MALS-30MG	•	s, Identifies, names and describes circles, squares, triangles and rectangles presented in different orientations. Uses the language of 'horizontal', 'vertical', 'parallel', 'side' and 'vertex'. Makes symmetrical shapes and designs with an understanding. Is exposed to the language of parts of circles. MAe-15MG; MA1-15MG MALS-31MG Stage 6-4.3	Manipulates circles, squares, triangles and rectangles. Uses the language of quadrilaterals, pentagons, octagons and hexagons. Describes and compares 2D shapes. Identifies and names parts of circles. MAe-15MG; MA1-15MG MALS-31MG Stage 6-4.3	pentagons, octagons and hexagons in pictures and environments. Makes and draws 2D shapes. Is exposed to the language of one-	and hexagons presented in different orientations. Makes and draws 2D shapes in different orientations. Uses thelanguage of one-step 'slides',' flips', 'full', 'half' and quarter 'turns'. Identifies and names special quadrilaterals.	'turns'. Identifies names and describes special quadrilaterals in different orientations. Combine and split common shapes to form other shapes, e.g. two triangles make a square and record the arrangement. Uses transformations to create and describe symmetrical designs. MA1-15MG; MA2-15MG MALS-31MG, MALS-31MG Stage 6-4.1, Stage 6-4.3, Stage 6-4.5	Stage 6-4.1, Stage 6-4.3, Stage 6-4.3	ŭ .	
	Three-dimensional Space		Reaches for tactile representations of 3D space. Explores 3D space using tactile objects. Smiles during 3D space experiences Turns in the direction of staff or peer discussing 3D space. MAe-14MG MALS-30MG Stage 6-4.1	through play with 3D objects and language. Intentionally engages in tactile experiences by choosing between	Describes features using everyday language of 3D shapes but not 1:1 correspondence. Sorts, manipulates and matches 3D objects found in the environment (shape, colour, size and function). MAe14MG MALS-30MG Stage 6-4.1	Distinguishes between flat and curved surfaces. Is introduced to 'faces' in order to describe flat surfaces with straight edges. Identifies cones, cubes, cylinders, spheres and prisms in pictures and the environment. MA1-14MG MALS-30MG Stage 6-4.3	Identifies cones, cubes, cylinders, spheres and prisms in different orientations in pictures and the environment. Introduced to language terms such a 'flat surface', 'curved surface' and 'edge'. Recognises that 3D objects look different from different vantage points. MA1-14MG MALS-31MG Stage 6-4.3	surface', 'face', 'edge' and 'vertex' appropriately to describe 3D objects. Recognises faces of 3D objects as	Represents 3D objects in models and drawings. MA2-14MG MALS-31MG Stage 6-4.3	Identifies, describes and compares features of prisms, pyramids, cylinders, cones and spheres. Makes models of 3D objects. Creates nets from everyday packages. MA2-14MG MALS-31MG Stage 6-4.3	• • • • • • • • • • • • • • • • • • • •	Recognises that prisms have a	Connects 3D objects with their net Constructs prisms and pyramids using a variety of materials and give drawings from different views. MA3-14MG MALS-31MG Stage 6-4.3	
	Angles									·	measures of turn. Compares angle sizes in everyday	Draws and classifies angles as acute obtuse, straight, reflex or a revolution Recognises the need for formal units to measure angles. MA2-16MG MALS-31MG	angles in degrees (up to 360°).	
	Position		Smiles during position experiences. Turns to music or person discussing position. Is aware of position activities. Gives attention to position experiences. MAe-16MG MALS-32MG Stage 6-4.2	Engages in tactile experiences and language through play. Intentionally engages in tactile experiences by choosing between two positions. Is exposed to and begins to use the language of positions e.g. 'front', 'behind', 'under', 'on'. Starts to follow simple directions. MAe-16MG MALS-32MG Stage 6-4.2	Describes position using everyday language. MAe-16MG MALS-32MG Stage 6-4.4	Uses the term 'left' and 'right' to describe pattern in relation to self. Gives and follows directions to move to familiar locations and to position objects. MA1-16MG MALS-32MG Stage 6-4.2, Stage 6-4.4	Uses the terms 'left' and 'right' to describe position in relation to self and from the perspective of a person facing in the opposite direction. Describes a path from one location to another. MA1-16MG MALS-32MG Stage 6-4.2, Stage 6-4.4	Represents the position of objects in models, photographs and drawings.	Uses grid-referenced maps to locate and describe positions and pathways Draws simple maps with a grid. MA2-16MG MALS-33MG Stage 6-4.5		Interpret legends and directions on maps. Use the scale to calculate the distance between two points on maps. Use grid-referenced maps to locate and describe positions. MA3-17MG MALS-34MG Stage 6-4.5	Follow a sequence of directions, including compass directions, to find a particular location on a map. MA3-17MG MALS-34MG Stage 6-4.5	Describe routes using landmarks a	
nd evaluate data, assign and use probabilities, d judgements.	Data		Smiles during data activities. Turns towards graphs and tables. Is aware a graph or table is being developed. Gives attention to data collection experiences e.g. hair colour. MAe-17SP MALS-35SP Stage 6-6.3	Sorts identical objects into two groups using colour, shape or size as a distinction. Intentionally contributes to data collection through eye gaze or raising	groups by characteristics. Experiences activities that match speople or objects into 1:1 correspondence in order to make comparisons. Attends to pictorial displays that	when displayed in lines. Identifies bigger and smaller groups when displayed in bundles. MAe-17SP	presented in tables and graphs, e.g. a picture graph to represent favourite foods, column graph to represent	and key. Recognises ways in which data about the environment can be displayed, e.g. data about climate and	Gathers and organises data in lists, tables and picture graphs and interprets the results.	Selects appropriate methods to collect data and constructs, compares, interprets and evaluates data displays, including tables, picture graphs and column graphs. Compares tables and graphs constructed from the same data to determine which is the most appropriate method of display. MA2-17SP MALS-37SP Stage 6-6.3	tables, column graphs, dot plots and	Collect categorical and numerical data by observation and by survey. Interprets side-by-side column graphs. MA3-18SP MALS-37SP Stage 6-6.3	Uses statistical displays to compare sets of data and evaluates statistic claims made in the media and elsewhere. Interprets and creates two-way tables. MA3-18SP MALS-37SP Stage 6-6.3	
Students collect, represent, analyse, interpret and and make sound	Chance		Smiles during chance activities. Gives attention to person leading chance activity. Gives attention to peers engaged in chance activities. MA1-18SP MALS-38SP	Shows excitement or anticipation towards an expected outcome through body language and facial expressions. Begins to interact with objects related to chance e.g. spin dial, dice. MA1-18SP MALS-38SP	in familiar situations e.g. "It is sunny so it's not going to rain today". MA1-18SP	Begins to make simple predictions	Uses spin dials and dice in chance related activities eg. board games. Begins to make more accurate predictions about the likelihood of an outcome based on a yes or no response. Begins to use the language of 'likely' and 'unlikely'. MA1-18SP MALS-38SP	dice in chance related activities e.g. board games. Makes accurate predictions about the likelihood of an outcome. Uses the language of 'likely' and	MA1-18SP	Identifies and describes possible outcomes of chance events and activities. Conducts chance experiments and compares predicted with actual results. MA2-19SP MALS-39SP	and order their chances of occurring. Identify everyday events where one	outcomes. Understands the probability of an event occurring when described as a percentage, e.g. "there is 75%	Represents probabilities using fractions, decimals or percentages Recognises that probabilities range from 0-1. Compares and observes frequenci in chance experiments with expect frequencies. MA3-19SP MALS-39SP	
standing and fluency in mathematics through inquiry, exploring natical concepts, choosing and applying problem-solving skills matical techniques, communication and reasoning.			Reasoning: Students dev	Problem Solving: Students develop the ability of the capacity for logical thought and ents develop an understanding of the rel	e ability to make choices, interpret, mod	del and investigate unfamiliar problem s valuating, explaining, inferring, justifyin	situations. They solve problems when the gradient of the gradi	ey use mathematics, design investigati when they explain their thinking, deduc	ions, apply strategies to seek reasonab	le stiuations and communicate their fin	dings effectively. e or false, and compare and contrast ide			