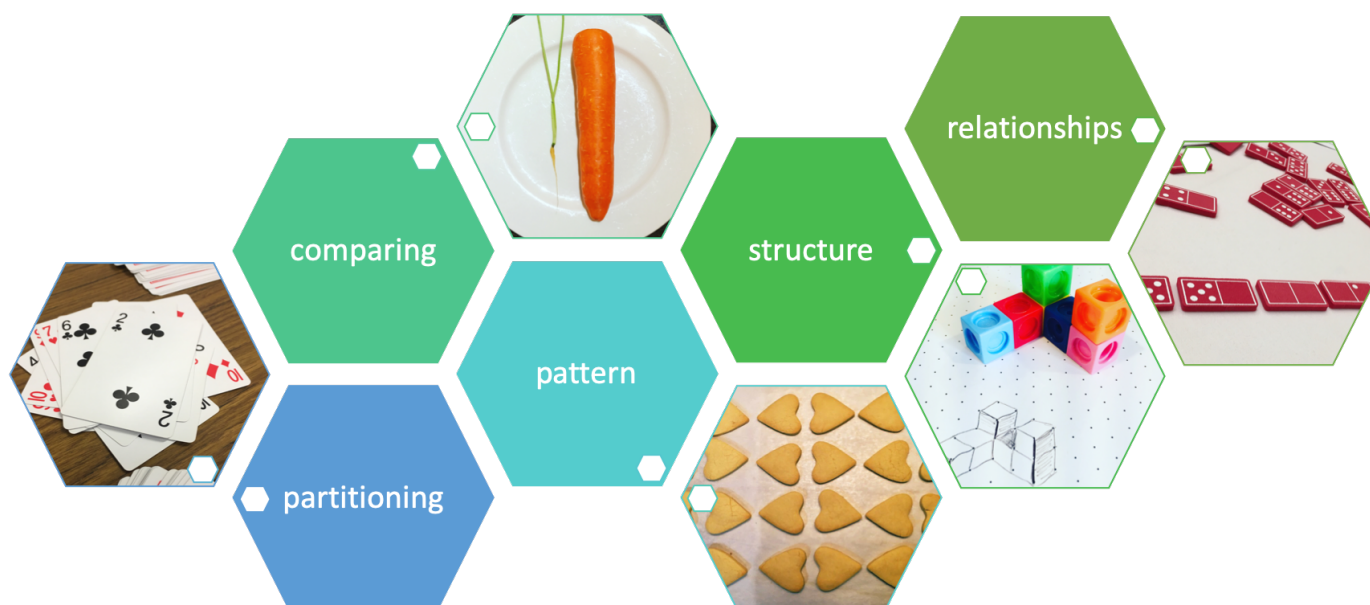


Content Clusters - Overview

This document includes all four stages' content clusters in one document to assist with planning (both a quick list overview of all the clusters then all the clusters in detail at the end of this document). It also includes a table that shows the progression of concepts across stages - indicating concepts that are the same or similar in each stage. This table may be of specific assistance to those teachers teaching across stages or in a multi-stage class.



Early Stage 1 Overview of Content Clusters

Content Cluster 1: Counting (developing principles of number sense)

Content Cluster 2: Counting to form groups (combining amounts and building number relationships)

Content Cluster 3: Sharing (using division) to represent fractions

Content Cluster 4: Counting to compare quantities

Content Cluster 5: Counting to sequence events

Content Cluster 6: Counting to sequence units

Content Cluster 7: Classifying and describing items or objects (sorting)

Content Cluster 8: Representing quantities (oral, image/drawing, number, symbol)

Content Cluster 9: Comparing features (e.g. size, shape)

Content Cluster 10: Understanding equality

Content Cluster 11: Compares quantities (numerical) and records findings (representations)

Content Cluster 12: Recognising patterns (starting with visual: shapes and objects)

Content Cluster 13: Relates objects to size, space and location

Content Cluster 14: Compares quantity or size (linear) (using estimation) records findings (representations)

Content Cluster 15: Compares quantity or size with objects (using estimation) records findings (representations)

Content Cluster 16: Represents information visually

Content Cluster 17: Applies number sense to money

Content Cluster 18: Relates durations of time to events and representations (e.g. clock)

Stage 1 Overview of Content Clusters

Content Cluster 1: Counting numbers (follow a pattern to develop number sense and place value)

Content Cluster 2: Visual representation of collections allows us to compare quantities

Content Cluster 3: Comparing quantities (using numbers, symbols and words)

Content Cluster 4: Trusting the count: Counting can start from numbers other than one (as a starting point for addition and subtraction)

Content Cluster 5: Number Representations: Numbers can be represented by words/language, images/drawings, number

Content Cluster 6: Partitioning: Numbers can be partitioned in multiple ways (part-whole number knowledge)

Content Cluster 7: Place Value: A number can be regrouped or renamed to aid in operating with the number (partitioning to operate with numbers)

Content Cluster 8: Applies non-count-by-ones (as flexible arithmetic strategies)

Content Cluster 9: One ten is ten ones (number relationships, place value)

Content Cluster 10: One hundred can be regrouped as ten tens, or, one hundred ones (number relationships, place value)

Content Cluster 11: Any number can be a countable unit e.g. counting by fives off the decade (e.g. relate to money)

Content Cluster 12: Numbers can be represented using pairs to show odd and even

Content Cluster 13: Patterns repeat or grow and the next number can be predicted (number structure)

Content Cluster 14: The 'equals sign' means 'the same as' (equality and inequality)

Content Cluster 15: Array structure: Multiples can be visually represented in an array (structure of number)

Content Cluster 16: The 'for each' concept: For each one of these (how many rows) there are some of those (how much in each row) - multiplicative thinking

Content Cluster 17: Quantities can be estimated (how much/ how many) using counting

Content Cluster 18: Benchmarks can be used to estimate quantity (how much/ how many)

Content Cluster 19: An object has attributes that can be measured using different processes

Content Cluster 20: Repeated units provide structure: Units of measurement can be iterated (no gaps or overlaps)

Content Cluster 21: Objects can be ordered based on (informal) units of measurement (e.g. size, quantity/number of cubes a container can hold)

Stage 1 Overview of Content Clusters cont.

Content Cluster 22: Objects can be measured and compared using formal units

Content Cluster 23: A fraction is a number that represents a relationship between parts and the whole (number relationships)

Content Cluster 24: Fractions are created through sharing - division (a fraction is less than one whole and that fractions are the result of dividing e.g sharing 2 biscuits among 4 people)

Content Cluster 25: A fraction can be represented in many ways e.g as length, area, or a collection (continuous and discrete representations)

Content Cluster 26: Shape properties remain constant even when they are moved or reorientated (transforming shapes)

Content Cluster 27: Shapes and objects are classified based on properties (describing and comparing features)

Content Cluster 28: Patterns can be created using shapes (copying, turning, flipping, sliding)

Content Cluster 29: Locating: Your position can be described in relation to other objects or landmarks

Content Cluster 30: Time can be measured in minutes and hours

Content Cluster 31: Time (duration) can be visually represented in multiple ways e.g. calendars, clocks, timetables

Content Cluster 32: Collecting data: Information can be collected and represented using numbers

Content Cluster 33: Representing data: Information can be presented visually to convey meaning (data representations)

Content Cluster 34: Events can be measured and predicted based on chance

Stage 2 Overview of Content Clusters

Content Cluster 1: Flexible counting (any number can be a countable unit)

Content Cluster 2: Place value (numbers can be regrouped and renamed – partitioning)

Content Cluster 3: Representing numbers (numbers can be represented and ordered based on their place value)

Content Cluster 4: Number representations (numbers can be represented by words/language, images/drawings, numbers/symbols)

Content Cluster 5: Comparing quantities – linear focus (numbers can be compared based on size and place value)

Content Cluster 6: Comparing quantities – area/volume focus (numbers can be compared based on size and place value)

Content Cluster 7: Flexible strategies for operating with numbers (numbers can be partitioned to assist with computation)

Content Cluster 8: Partitioning: Part-whole number knowledge (numbers can be partitioned in multiple ways)

Content Cluster 9: Money uses a many-to-one scale

Content Cluster 10: The 'equals sign' means "the same as" (equality and inequality)

Content Cluster 11: Number relationships – converting (one thousand can be regrouped as 10 hundreds, 100 tens, or 1000 ones)

Content Cluster 12: Numbers can be represented using pairs to explore odd and even properties

Content Cluster 13: Patterns repeat or grow and future terms can be predicted (number structure)

Content Cluster 14: Multiples can be visually represented as an array (number structure)

Content Cluster 15: The 'for each' concept – for each of these (how many rows), there are some of those (how much in each row)

Content Cluster 16: A fraction is a number that represents a relationship between parts and the whole

Content Cluster 17: Fractions represent division (number relationships)

Content Cluster 18: Time can be measured in hours, minutes and seconds (links to fractional language)

Content Cluster 19: Measurements are approximations and can be represented using formal units

Content Cluster 20: Benchmark numbers can be used to estimate quantities (how much/how many)

Content Cluster 21: Numbers and quantities can be compared using scale (links to proportionality)

Stage 2 Overview of Content Clusters cont.

Content Cluster 22: Objects can be measured and compared through different representations

Content Cluster 23: Shapes can be measured and compared through different representations

Content Cluster 24: Shape properties remain constant even when they are moved or reorientated (transforming shapes)

Content Cluster 25: Shapes and objects are classified based on properties (comparing features)

Content Cluster 26: Patterns can be created using shapes (copying, rotating, translating and reflecting)

Content Cluster 27: Locating and positioning is based on references (to points or one's self)

Content Cluster 28: Information can be collected, represented and analysed using numbers (collecting data)

Content Cluster 29: Information can be presented visually to convey meaning (data representations)

Content Cluster 30: Events can be predicted, measured, and discussed based on chance

Stage 3 Overview of Content Clusters

Content Cluster 1: Place value (numbers can be regrouped and renamed – partitioning)

Content Cluster 2: Representing numbers (numbers can be represented, ordered and compared based on their place value)

Content Cluster 3: Comparing quantities – linear focus (numbers can be compared based on size and place value)

Content Cluster 4: Comparing quantities – area/volume/mass focus (numbers can be compared based on size and place value)

Content Cluster 5: Partitioning: Part-whole number knowledge (numbers can be partitioned in multiple ways)

Content Cluster 6: Flexible strategies for operating with numbers (numbers can be partitioned to assist with computation)

Content Cluster 7: A variety of strategies can be applied to solve word problems

Content Cluster 8: Multiples can be visually represented as an array ('for each' number structure)

Content Cluster 9: Reasonableness of solutions can be checked using estimation

Content Cluster 10: Benchmark numbers can be used to estimate quantities (how much/how many)

Content Cluster 11: Number relationships – converting (e.g. one thousand can be regrouped as 10 hundreds, 100 tens, or 1000 ones)

Content Cluster 12: Money uses a many-to-one scale (link to place value e.g. 100 cents is equal to \$1)

Content Cluster 13: The 'equals sign' means "the same as" (equality and inequality)

Content Cluster 14: Numbers can be represented using pairs to explore odd and even properties

Content Cluster 15: Patterns repeat or grow and future terms can be predicted (number structure)

Content Cluster 16: Patterns can be represented geometrically

Content Cluster 17: A fraction is a number (that represents a relationship between parts and the whole)

Content Cluster 18: Fractions represent division (number relationships)

Content Cluster 19: Fractions as a measure

Content Cluster 20: Fractions as an operator

Content Cluster 21: Time can be measured and compared in hours, minutes and seconds (relating 12 to 24 hour time)

Stage 3 Overview of Content Clusters cont.

Content Cluster 22: Numbers and quantities can be compared using scale (links to proportionality)

Content Cluster 23: Measurements are approximations and can be represented using formal units

Content Cluster 24: The multiplicative structure (row and column) can be applied to measure area and volume

Content Cluster 25: Objects can be measured and compared through different representations

Content Cluster 26: Shapes can be measured and compared through different representations

Content Cluster 27: Shape and objects are classified based on their properties

Content Cluster 28: Grid references and coordinates can be used for locating and positioning

Content Cluster 29: Information can be collected, analysed and interpreted using numbers (collecting data)

Content Cluster 30: Information can be presented visually to convey meaning (data representations and exploring bias)

Content Cluster 31: Events can be predicted, compared, and analysed based on probability

Content Cluster 32: Probabilities of events can be described in a range of 0 – 1 (probabilities as fractions of a whole)

Content Clusters: Links across stages

Early Stage 1	Stage 1	Stage 2	Stage 3
Content Cluster 1: Counting (developing principles of number sense)	<p>Content Cluster 1: Counting numbers (follow a pattern to develop number sense and place value)</p> <p>Content Cluster 4: Trusting the count: Counting can start from numbers other than one (as a starting point for addition and subtraction)</p>		
Content Cluster 2: Counting to form groups (combining amounts and building number relationships)	<p>Content Cluster 6: Partitioning: Numbers can be partitioned in multiple ways (part-whole number knowledge)</p> <p>Content Cluster 9: One ten is ten ones (number relationships, place value)</p> <p>Content Cluster 10: One hundred can be regrouped as ten tens, or, one hundred ones (number relationships, place value)</p> <p>Content Cluster 16: The 'for each' concept: For each one of these (how many rows) there are some of those (how much in each row) - multiplicative thinking</p>	<p>Content Cluster 8: Partitioning: Part-whole number knowledge (numbers can be partitioned in multiple ways)</p> <p>Content Cluster 11: Number relationships – converting (one thousand can be regrouped as 10 hundreds, 100 tens, or 1000 ones)</p> <p>Content Cluster 15: The 'for each' concept – for each of these (how many rows), there are some of those (how much in each row)</p>	<p>Content Cluster 5: Partitioning: Part-whole number knowledge (numbers can be partitioned in multiple ways)</p> <p>Content Cluster 11: Number relationships – converting (e.g. one thousand can be regrouped as 10 hundreds, 100 tens, or 1000 ones)</p>

Early Stage 1	Stage 1	Stage 2	Stage 3
Content Cluster 3: Sharing (using division) to represent fractions	<p>Content Cluster 23: A fraction is a number that represents a relationship between parts and the whole (number relationships)</p> <p>Content Cluster 24: Fractions are created through sharing - division (a fraction is less than one whole and that fractions are the result of dividing e.g sharing 2 biscuits among 4 people)</p> <p>Content Cluster 25: A fraction can be represented in many ways e.g as length, area, or a collection (continuous and discrete representations)</p>	<p>Content Cluster 16: A fraction is a number that represents a relationship between parts and the whole</p> <p>Content Cluster 17: Fractions represent division (number relationships)</p>	<p>Content Cluster 17: A fraction is a number (that represents a relationship between parts and the whole)</p> <p>Content Cluster 18: Fractions represent division (number relationships)</p>
			<p>Content Cluster 19: Fractions as a measure</p> <p>Content Cluster 20: Fractions as an operator</p>
Content Cluster 4: Counting to compare quantities	<p>Content Cluster 3: Comparing quantities (using numbers, symbols and words)</p> <p>Content Cluster 7: Place Value: A number can be regrouped or renamed to aid in operating with the number (partitioning to operate with numbers)</p>	<p>Content Cluster 2: Place value (numbers can be regrouped and renamed – partitioning)</p> <p>Content Cluster 7: Flexible strategies for operating with numbers (numbers can be partitioned to assist with computation)</p>	<p>Content Cluster 1: Place value (numbers can be regrouped and renamed – partitioning)</p> <p>Content Cluster 2: Representing numbers (numbers can be represented, ordered and compared based on their place value)</p>

Early Stage 1	Stage 1	Stage 2	Stage 3
	Content Cluster 8: Applies non-count-by-ones (as flexible arithmetic strategies)		Content Cluster 6: Flexible strategies for operating with numbers (numbers can be partitioned to assist with computation) Content Cluster 7: A variety of strategies can be applied to solve word problems
Content Cluster 5: Counting to sequence events	Content Cluster 31: Time (duration) can be visually represented in multiple ways e.g. calendars, clocks, timetables	Content Cluster 21: Numbers and quantities can be compared using scale (links to proportionality)	Content Cluster 22: Numbers and quantities can be compared using scale (links to proportionality)
Content Cluster 6: Counting to sequence units	Content Cluster 20: Repeated units provide structure: Units of measurement can be iterated (no gaps or overlaps)	Content Cluster 23: Shapes can be measured and compared through different representations	Content Cluster 26: Shapes can be measured and compared through different representations
Content Cluster 7: Classifying and describing items or objects (sorting)	Content Cluster 27: Shapes and objects are classified based on properties (describing and comparing features)	Content Cluster 25: Shapes and objects are classified based on properties (comparing features)	Content Cluster 27: Shape and objects are classified based on their properties
Content Cluster 8: Representing quantities (oral, image/drawing, number, symbol)	Content Cluster 2: Visual representation of collections allows us to compare quantities	Content Cluster 4: Number representations (numbers can be represented by words/language, images/drawings, numbers/symbols)	
Content Cluster 9: Comparing features (e.g. size, shape)	Content Cluster 26: Shape properties remain constant even when they are moved or reorientated (transforming shapes)	Content Cluster 24: Shape properties remain constant even when they are moved or reorientated (transforming shapes)	

Early Stage 1	Stage 1	Stage 2	Stage 3
Content Cluster 10: Understanding equality	Content Cluster 14: The 'equals sign' means 'the same as' (equality and inequality)	Content Cluster 10: The 'equals sign' means "the same as" (equality and inequality)	Content Cluster 13: The 'equals sign' means "the same as" (equality and inequality)
Content Cluster 11: Compares quantities (numerical) and records findings (representations)	Content Cluster 5: Number Representations: Numbers can be represented by words/language, images/drawings, number	Content Cluster 3: Representing numbers (numbers can be represented and ordered based on their place value)	
Content Cluster 12: Recognising patterns (starting with visual: shapes and objects)	Content Cluster 13: Patterns repeat or grow and the next number can be predicted (number structure) Content Cluster 28: Patterns can be created using shapes (copying, turning, flipping, sliding)	Content Cluster 13: Patterns repeat or grow and future terms can be predicted (number structure) Content Cluster 26: Patterns can be created using shapes (copying, rotating, translating and reflecting)	Content Cluster 15: Patterns repeat or grow and future terms can be predicted (number structure) Content Cluster 16: Patterns can be represented geometrically
	Content Cluster 12: Numbers can be represented using pairs to show odd and even	Content Cluster 12: Numbers can be represented using pairs to explore odd and even properties	Content Cluster 14: Numbers can be represented using pairs to explore odd and even properties
Content Cluster 13: Relates objects to size, space and location	Content Cluster 21: Objects can be ordered based on (informal) units of measurement (e.g. size, quantity/number of cubes a container can hold) Content Cluster 29: Locating: Your position can be described in relation to other objects or landmarks	Content Cluster 27: Locating and positioning is based on references (to points or one's self)	Content Cluster 28: Grid references and coordinates can be used for locating and positioning

Early Stage 1	Stage 1	Stage 2	Stage 3
Content Cluster 14: Compares quantity or size (linear) (using estimation) records findings (representations)	<p>Content Cluster 17: Quantities can be estimated (how much/ how many) using counting</p> <p>Content Cluster 18: Benchmarks can be used to estimate quantity (how much/ how many)</p>	<p>Content Cluster 5: Comparing quantities – linear focus (numbers can be compared based on size and place value)</p> <p>Content Cluster 20: Benchmark numbers can be used to estimate quantities (how much/how many)</p>	<p>Content Cluster 3: Comparing quantities – linear focus (numbers can be compared based on size and place value)</p> <p>Content Cluster 9: Reasonableness of solutions can be checked using estimation</p> <p>Content Cluster 10: Benchmark numbers can be used to estimate quantities (how much/how many)</p>
		Content Cluster 19: Measurements are approximations and can be represented using formal units	Content Cluster 23: Measurements are approximations and can be represented using formal units
Content Cluster 15: Compares quantity or size with objects (using estimation) records findings (representations)	<p>Content Cluster 15: Array structure: Multiples can be visually represented in an array (structure of number)</p> <p>Content Cluster 19: An object has attributes that can be measured using different processes</p> <p>Content Cluster 22: Objects can be measured and compared using formal units</p>	<p>Content Cluster 6: Comparing quantities – area/volume focus (numbers can be compared based on size and place value)</p> <p>Content Cluster 14: Multiples can be visually represented as an array (number structure)</p> <p>Content Cluster 22: Objects can be measured and compared through different representations</p>	<p>Content Cluster 4: Comparing quantities – area/volume/mass focus (numbers can be compared based on size and place value)</p> <p>Content Cluster 8: Multiples can be visually represented as an array ('for each' number structure)</p> <p>Content Cluster 24: The multiplicative structure (row and column) can be applied to measure area and volume</p>

Early Stage 1	Stage 1	Stage 2	Stage 3
			Content Cluster 25: Objects can be measured and compared through different representations
Content Cluster 16: Represents information visually	Content Cluster 33: Representing data: Information can be presented visually to convey meaning (data representations)	Content Cluster 29: Information can be presented visually to convey meaning (data representations)	Content Cluster 30: Information can be presented visually to convey meaning (data representations and exploring bias)
	Content Cluster 32: Collecting data: Information can be collected and represented using numbers	Content Cluster 28: Information can be collected, represented and analysed using numbers (collecting data)	Content Cluster 29: Information can be collected, analysed and interpreted using numbers (collecting data)
Content Cluster 17: Applies number sense to money	Content Cluster 11: Any number can be a countable unit e.g. counting by fives off the decade (e.g. relate to money)	Content Cluster 1: Flexible counting (any number can be a countable unit) Content Cluster 9: Money uses a many-to-one scale	Content Cluster 12: Money uses a many-to-one scale (link to place value e.g. 100 cents is equal to \$1)
Content Cluster 18: Relates durations of time to events and representations (e.g. clock)	Content Cluster 30: Time can be measured in minutes and hours	Content Cluster 18: Time can be measured in hours, minutes and seconds (links to fractional language)	Content Cluster 21: Time can be measured and compared in hours, minutes and seconds (relating 12 to 24 hour time)
	Content Cluster 34: Events can be measured and predicted based on chance	Content Cluster 30: Events can be predicted, measured, and discussed based on chance	Content Cluster 31: Events can be predicted, compared, and analysed based on probability Content Cluster 32: Probabilities of events can be described in a range of 0 – 1 (probabilities as fractions of a whole)

Early Stage 1 Content Clusters

Content Cluster 1: Counting (developing principles of number sense)

Whole Numbers MAe-4NA

Count forwards to 30 from a given number

Count backwards from a given number in the range 0 to 20

Addition and Subtraction MAe-5NA

Combine two or more groups of objects to model addition

Content Cluster 2: Counting to form groups (combining amounts and building number relationships)

Addition and Subtraction MAe-5NA

Combine two or more groups of objects to model addition

Subitise small collections of objects

Multiplication and Division MAe-6NA

Investigate and model equal groups

Record grouping and sharing using informal methods

Patterns and Algebra MAe-8NA

Sort and classify objects into groups

Content Cluster 3: Sharing (using division) to represent fractions

Addition and Subtraction MAe-5NA

Take part of a group away to model subtraction

Fractions and Decimals MAe-7NA

Establish the concept of one-half

Record halves of objects using drawings

Multiplication and Division MAe-6NA

Investigate and model equal groups

Record grouping and sharing using informal methods

Two-Dimensional Space MAe-15MG

Sort, manipulate, make and draw circles, squares, triangles and rectangles

Early Stage 1 Content Clusters

Content Cluster 4: Counting to compare quantities

Addition and Subtraction MAe-5NA

Combine two or more groups of objects to model addition

Take part of a group away to model subtraction

Compare two groups to determine 'how many more'

Volume and Capacity MAe-11MG

Describe capacity and volume using everyday language, including comparatives

Compare volumes and capacities using direct comparison

Content Cluster 5: Counting to sequence events

Whole Numbers MAe-4NA

Compare, order, read and represent numbers to at least 20

Read and use the ordinal names to at least 'tenth'

Time MAe-13MG

Compare and order the duration of events using everyday language

Sequence events in time

Content Cluster 6: Counting to sequence units

Whole Numbers MAe-4NA

Compare, order, read and represent numbers to at least 20

Length MAe-9MG

Identify the attribute of 'length' as a measure of an object from end to end

Describe length and distance using everyday language, including comparatives

Compare lengths using direct comparison

Early Stage 1 Content Clusters

Content Cluster 7: Classifying and describing items or objects (sorting)

Three-Dimensional Space MAe-14MG Sort and manipulate three-dimensional objects found in the environment	Two-Dimensional Space MAe-15MG Sort, manipulate, make and draw circles, squares, triangles and rectangles	Position MAe-16MG Describe position using everyday language Use the terms 'left' and 'right' to describe position in relation to self	Patterns and Algebra MAe-8NA Sort and classify objects into groups
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Content Cluster 8: Representing quantities (oral, image/drawing, number, symbol)

Whole Numbers MAe-4NA Compare, order, read and represent numbers to at least 20	Data MAe-17SP Collect information about themselves and their environment Organise actual objects into data displays
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Content Cluster 9: Comparing features (e.g. size, shape)

Three-Dimensional Space MAe-14MG Describe features of common three-dimensional objects using everyday language	Two-Dimensional Space MAe-15MG Identify, name and describe circles, squares, triangles and rectangles presented in different orientations, in pictures and the environment	Patterns and Algebra MAe-8NA Sort and classify objects into groups
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Early Stage 1 Content Clusters

Content Cluster 10: Understanding equality			
Whole Numbers MAe-4NA Use the term ‘is the same as’ to express equality of groups	Multiplication and Division MAe-6NA Investigate and model equal groups Record grouping and sharing using informal methods		Fractions and Decimals MAe-7NA Establish the concept of one-half Record halves of objects using drawings
Content Cluster 11: Compares quantities (numerical) and records findings (representations)			
Whole Numbers MAe-4NA Compare, order, read and represent numbers to at least 20	Addition and Subtraction Mae-5NA Combine two or more groups of objects to model addition Record addition and subtraction informally		Multiplication and Division MAe-6NA Record grouping and sharing using informal methods
Content Cluster 12: Recognising patterns (starting with visual: shapes and objects)			
Patterns and Algebra MAe-8NA Recognise, copy, continue, create and describe repeating patterns of objects and drawings	Whole Numbers MAe-4NA Subitise small collections of objects Use the term ‘is the same as’ to express equality of groups	Two-Dimensional Space MAe-15MG Sort, manipulate, make and draw circles, squares, triangles and rectangles	Position MAe-16MG Describe position using everyday language

Early Stage 1 Content Clusters

Content Cluster 13: Relates objects to size, space and location			
Area MAe-10MG Identify the attribute of 'area' as a measure of the amount of surface	Volume and Capacity MAe-11MG Identify the attribute of 'capacity' as a measure of the amount of substance a container can hold Identify the attribute of 'volume' as a measure of the amount of space an object occupies	Mass MAe-12MG Identify the attribute of 'mass' as a measure of the amount of matter in an object	Position MAe-16MG Give and follow simple directions Describe position using everyday language

Content Cluster 14: Compares quantity or size (linear) (using estimation) records findings (representations)			
Whole Numbers MAe-4NA Count forwards to 30 from a given number Count backwards from a given number in the range 0 to 20	Length MAe-9MG Describe length and distance using everyday language, including comparatives Compare lengths using direct comparison Record comparisons of length informally	Area MAe-10MG Describe area using everyday language, including comparatives Compare areas using direct comparison Record comparisons of area informally	Position MAe-16MG Describe position using everyday language

Content Cluster 15: Compares quantity or size with objects (using estimation) records findings (representations)			
Whole Numbers MAe-4NA Count forwards to 30 from a given number Count backwards from a given number in the range 0 to 20	Area MAe-10MG Describe area using everyday language, including comparatives Compare areas using direct comparison	Volume and Capacity MAe-11MG Describe capacity and volume using everyday language, including comparatives Compare volumes and capacities using direct comparison Record comparisons of capacity and volume informally	Mass MAe-12MG Describe mass using everyday language, including comparatives Compare masses directly by hefting Record comparisons of mass informally

Early Stage 1 Content Clusters

Content Cluster 16: Represents information visually

Data MAe-17SP

Organise actual objects into data displays
Interpret data displays made from objects

Whole Numbers MAe-4NA

Compare, order, read and represent numbers to at least 20
Use the term 'is the same as' to express equality of groups

Three-Dimensional Space MAe-14MG

Sort and manipulate three-dimensional objects found in the environment

Content Cluster 17: Applies number sense to money

Whole Numbers MAe-4NA

Compare, order, read and represent numbers to at least 20
Use the language of money

Addition and Subtraction Mae-5NA

Combine two or more groups of objects to model addition
Take part of a group away to model subtraction
Compare two groups to determine 'how many more'

Content Cluster 18: Relates durations of time to events and representations (e.g. clock)

Whole Numbers MAe-4NA

Compare, order, read and represent numbers to at least 20

Time MAe-13MG

Connect days of the week to familiar events and actions
Tell time on the hour on digital and analog clocks

Fractions and Decimals MAe-7NA

Establish the concept of one-half

Stage 1 Content Clusters

Content Cluster 1: Counting numbers (follow a pattern to develop number sense and place value)			
Whole Numbers 1 MA1-4NA Read, write and order two-digit numbers Read and use ordinal names to at least 'thirty-first'	Whole Numbers 2 MA1-4NA Read, write and order three-digit numbers	Multiplication and Division 1 MA1-6NA Rhythmic and skip count by twos, fives and tens from zero	Patterns and Algebra 1 MA1-8NA Recognise, copy, continue, create and describe increasing and decreasing number patterns Patterns and Algebra 2 MA1-8NA Describe patterns with numbers and identify missing elements
Content Cluster 2: Visual representation of collections allows us to compare quantities			
Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials Model and apply the commutative property for addition Use the equals sign to record equivalent number sentences	Whole Numbers 1 MA1-4NA Partition two-digit numbers using place value	Addition and Subtraction 2 MA1-5NA Make connections between addition and subtraction	Multiplication and Division 1 MA1-6NA Model and use equal 'groups of' objects as a strategy for multiplication Multiplication and Division 2 MA1-6NA Model and use arrays described in terms of 'rows' and 'columns' as a strategy for multiplication Model and use groups, arrays and repeated subtraction as strategies for division Record using drawings, words and numerals

Stage 1 Content Clusters

Content Cluster 3: Comparing quantities (using numbers, symbols and words)			
Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials Model and apply the commutative property for addition Record number sentences using drawings, words, numerals and the symbols +, – and =	Addition and Subtraction 2 MA1-5NA Use and record a range of mental strategies for addition and subtraction of two-digit numbers Make connections between addition and subtraction	Multiplication and Division 1 MA1-6NA 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 Multiplication and Division 2 MA1-6NA Record using drawings, words and numerals	Fractions and Decimals 1 MA1-7NA Use fraction notation $\frac{1}{2}$ Fractions and Decimals 2 MA1-7NA Use fraction notation $\frac{1}{4}$ and $\frac{1}{8}$
Content Cluster 4: Trusting the count: Counting can start from numbers other than one (as a starting point for addition and subtraction)			
Whole Numbers 1 MA1-4NA Count forwards and backwards by ones from a two-digit number Whole Numbers 2 MA1-4NA Count forwards and backwards by twos, threes, fives and tens from any starting point	Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials	Multiplication and Division 1 MA1-6NA Rhythmic and skip count by twos, fives and tens from zero	Patterns and Algebra 2 MA1-8NA Describe patterns with numbers and identify missing elements

Stage 1 Overview Clusters

Content Cluster 5: Number Representations: Numbers can be represented by words/language, images/drawings, number			
Whole Numbers 1 MA1-4NA Read, write and order two-digit numbers Read and use ordinal names to at least 'thirty-first'	Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials Record number sentences using drawings, words, numerals and the symbols +, – and = Use the equals sign to record equivalent number sentences Addition and Subtraction 2 MA1-5NA Use and record a range of mental strategies for addition and subtraction of two-digit numbers	Multiplication and Division 2 MA1-6NA Model and use groups, arrays and repeated subtraction as strategies for division Record using drawings, words and numerals	Patterns and Algebra 1 MA1-8NA Recognise, copy, create, continue and describe repeating patterns of objects or symbols Model and describe odd and even numbers
Content Cluster 6: Partitioning: Numbers can be partitioned in multiple ways (part-whole number knowledge)			
Whole Numbers 1 MA1-4NA Partition two-digit numbers using place value Whole Numbers 2 MA1-4NA Partition numbers of up to three digits using place value	Addition and Subtraction 1 MA1-5NA 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 Addition and Subtraction 2 MA1-5NA Use and record a range of mental strategies for addition and subtraction of two-digit numbers	Multiplication and Division 1 MA1-6NA 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 Multiplication and Division 2 MA1-6NA Model and use arrays described in terms of 'rows' and 'columns' as a strategy for multiplication Model and use groups, arrays and repeated subtraction as strategies for division	Fractions and Decimals 1 MA1-7NA Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections Fractions and Decimals 2 MA1-7NA Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections

Stage 1 Content Clusters

Content Cluster 7: Place Value: A number can be regrouped or renamed to aid in operating with the number (partitioning to operate with numbers)		
Whole Numbers 1 MA1-4NA Partition two-digit numbers using place value Whole Numbers 2 MA1-4NA Partition numbers of up to three digits using place value	Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials Model and apply the commutative property for addition Addition and Subtraction 2 MA1-5NA Use and record a range of mental strategies for addition and subtraction of two-digit numbers Solve word problems involving addition and subtraction	Multiplication and Division 1 MA1-6NA 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 Model division by sharing a collection equally into groups of a given size to determine the number of groups Multiplication and Division 2 MA1-6NA Model and use groups, arrays and repeated subtraction as strategies for division

Content Cluster 8: Applies non-count-by-ones (as flexible arithmetic strategies)				
Addition and Subtraction 1 MA1-5NA 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 Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers	Whole Numbers 1 MA1-4NA Partition two-digit numbers using place value	Addition and Subtraction 2 MA1-5NA Make connections between addition and subtraction Use and record a range of mental strategies for addition and subtraction of two-digit numbers Solve word problems involving addition and subtraction	Multiplication and Division 2 MA1-6NA Model and use repeated addition as a strategy for multiplication	Patterns and Algebra 2 MA1-8NA Find missing numbers in number sentences involving one operation of addition or subtraction

Stage 1 Content Clusters

Content Cluster 9: One ten is ten ones (number relationships, place value)

Whole Numbers 1 MA1-4NA Partition two-digit numbers using place value	Addition and Subtraction 1 MA1-5NA Recognise and recall combinations of numbers that add to numbers up to 20 Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers	Addition and Subtraction 2 MA1-5NA Use and record a range of mental strategies for addition and subtraction of two-digit numbers	Patterns and Algebra 2 MA1-8NA Find missing numbers in number sentences involving one operation of addition or subtraction
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Content Cluster 10: One hundred can be regrouped as ten tens, or, one hundred ones (number relationships, place value)

Whole Numbers 2 MA1-4NA Partition numbers of up to three digits using place value Read, write and order three-digit numbers	Length 2 MA1-9MG Recognise the need for formal units to measure length Use metres and centimetres to measure and estimate lengths and distances Record lengths using the abbreviations m and cm
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Content Cluster 11: Any number can be a countable unit e.g. counting by fives off the decade (e.g. relate to money)

Whole Numbers 1 MA1-4NA Recognise, describe and order Australian coins according to their value	Whole Numbers 2 MA1-4NA Count forwards and backwards by twos, threes, fives and tens from any starting point Recognise, count and order Australian coins and notes according to their value	Multiplication and Division 1 MA1-6NA Rhythmic and skip count by twos, fives and tens from zero	Patterns and Algebra 2 MA1-8NA Describe patterns with numbers and identify missing elements
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Stage 1 Content Clusters

Content Cluster 12: Numbers can be represented using pairs to show odd and even

Patterns and Algebra 1 MA1-7NA

Model and describe odd and even numbers

Whole Numbers 2 MA1-4NA

Count forwards and backwards by twos, threes, fives and tens from any starting point

Content Cluster 13: Patterns repeat or grow and the next number can be predicted (number structure)

Whole Numbers 1 MA1-4NA

Read, write and order two-digit numbers

Read and use ordinal names to at least 'thirty-first'

Whole Numbers 2 MA1-4NA

Count forwards and backwards by twos, threes, fives and tens from any starting point

Multiplication and Division 1 MA1-6NA

Rhythmic and skip count by twos, fives and tens from zero

Patterns and Algebra 1 MA1-8NA

Recognise, copy, continue, create and describe increasing and decreasing number patterns

Recognise, copy, create, continue and describe repeating patterns of objects or symbols

Patterns and Algebra 2 MA1-8NA

Describe patterns with numbers and identify missing elements

Content Cluster 14: The 'equals sign' means 'the same as' (equality and inequality)

Addition and Subtraction 1 MA1-5NA

Record number sentences using drawings, words, numerals and the symbols +, – and =

Use the equals sign to record equivalent number sentences

Model and apply the commutative property for addition

Addition and Subtraction 2 MA1-5NA

Make connections between addition and subtraction

Patterns and Algebra 2 MA1-8NA

Find missing numbers in number sentences involving one operation of addition or subtraction

Mass 1 MA1-12MG

Place objects on either side of a pan balance to obtain a level balance

Use a pan balance to compare two objects based on mass

Stage 1 Content Clusters

Content Cluster 15: Array structure: Multiples can be visually represented in an array (structure of number)

Multiplication and Division 1 MA1-6NA

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

Model division by sharing a collection equally into groups of a given size to determine the number of groups

Multiplication and Division 2 MA1-6NA

Model and use repeated addition as a strategy for multiplication

Multiplication and Division 2 MA1-6NA
Model and use arrays described in terms of 'rows' and 'columns' as a strategy for multiplication

Model and use groups, arrays and repeated subtraction as strategies for division

Patterns and Algebra 1 MA1-8NA

Recognise, copy, create, continue and describe repeating patterns of objects or symbols

Area 1 MA1-10MG

Use uniform informal units to measure and estimate areas

Record areas by referring to the number and type of uniform informal unit used

Content Cluster 16: The 'for each' concept: For each one of these (how many rows) there are some of those (how much in each row) - multiplicative thinking

Multiplication and Division 1 MA1-6NA

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

Model division by sharing a collection equally into groups of a given size to determine the number of groups

Multiplication and Division 2 MA1-6NA

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

Model and use groups, arrays and repeated subtraction as strategies for division

Patterns and Algebra 1 MA1-8NA

Recognise, copy, create, continue and describe repeating patterns of objects or symbols

Whole Numbers 2 MA1-4NA

Count forwards and backwards by twos, threes, fives and tens from any starting point

Stage 1 Content Clusters

Content Cluster 17: Quantities can be estimated (how much/ how many) using counting					
Length 1 MA1-9MG Use uniform informal units to measure, compare and estimate lengths	Area 1 MA1-10MG Use uniform informal units to measure and estimate areas	Volume and Capacity 1 MA1-11MG Use uniform informal units to measure, compare and estimate capacities Use uniform informal units to measure and estimate volumes	Mass MA1-12MG Place objects on either side of a pan balance to obtain a level balance Use a pan balance to compare two objects based on mass Mass 2 MA1-12MG Use uniform informal units to measure, compare and estimate the masses of objects	Multiplication and Division 2 MA1-6NA 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	Addition and Subtraction 1 MA1-5NA Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers

Content Cluster 18: Benchmarks can be used to estimate quantity (how much/ how many)			
Length 2 MA1-9MG Compare and order shapes/objects based on length measured using uniform informal units	Time 2 MA1-13MG Experience activities with duration of one hour, half/quarter of an hour, one minute and a few seconds	Fractions and Decimals 1 MA1-7NA Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections Use fraction notation $\frac{1}{2}$ Fractions and Decimals 2 MA1-7NA Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections Use fraction notation $\frac{1}{4}$ and $\frac{1}{8}$	Addition and Subtraction 1 MA1-5NA Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers

Stage 1 Content Clusters

Content Cluster 19: An object has attributes that can be measured using different processes						
Length 1 MA1-9MG Use uniform informal units to measure, compare and estimate lengths Length 2 MA1-9MG Record lengths by referring to the number and type of uniform informal unit used	Area 1 MA1-10MG Use uniform informal units to measure and estimate areas Record areas by referring to the number and type of uniform informal unit used	Volume and Capacity 1 MA1-11MG Use uniform informal units to measure, compare and estimate capacities 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	Mass 2 MA1-12MG 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	Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers	Multiplication and Division 2 MA1-6NA Model and use arrays described in terms of 'rows' and 'columns' as a strategy for multiplication	Three-Dimensional Space 2 MA1-14MG Represent three-dimensional objects in models and drawings

Content Cluster 20: Repeated units provide structure: Units of measurement can be iterated (no gaps or overlaps)				
Length 1 MA1-9MG Use uniform informal units to measure, compare and estimate lengths Length 2 MA1-9MG Record lengths by referring to the number and type of uniform informal unit used	Area 1 MA1-10MG Use uniform informal units to measure and estimate areas Record areas by referring to the number and type of uniform informal unit used	Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers Addition and Subtraction 2 MA1-5NA Use and record a range of mental strategies for addition and subtraction of two-digit numbers	Multiplication and Division 1 MA1-6NA Rhythmic and skip count by twos, fives and tens from zero Multiplication and Division 2 MA1-6NA 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	Whole Numbers 2 MA1-4NA Count forwards and backwards by twos, threes, fives and tens from any starting point

Stage 1 Content Clusters

Content Cluster 21: Objects can be ordered based on (informal) units of measurement (e.g. size, quantity/number of cubes a container can hold)

Whole Numbers 1 MA1-4NA Read, write and order two-digit numbers	Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials	Length 2 MA1-9MG Compare and order shapes/objects based on length measured using uniform informal units	Area 2 MA1-10MG Compare and order surfaces based on area measured using uniform informal units	Volume 2 MA1-11MG Compare and order objects based on capacity and volume measured using uniform informal units
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Content Cluster 22: Objects can be measured and compared using formal units

Length 2 MA1-9MG Recognise the need for formal units to measure length Use metres and centimetres to measure and estimate lengths and distances Record lengths using the abbreviations m and cm	Addition and Subtraction 1 MA1-5NA Use and record a range of mental strategies for addition and subtraction of one- and two-digit numbers
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Content Cluster 23: A fraction is a number that represents a relationship between parts and the whole (number relationships)

Fractions and Decimals 1 MA1-7NA Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections	Fractions and Decimals 2 MA1-7NA Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections	Time 2 MA1-13MG Experience activities with duration of one hour, half/quarter of an hour, one minute and a few seconds	Two-Dimensional Space 2 MA1-15MG Identify, perform, describe and record the result of full, half and quarter 'turns'
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Stage 1 Content Clusters

Content Cluster 24: Fractions are created through sharing - division (a fraction is less than one whole and that fractions are the result of dividing e.g sharing 2 biscuits among 4 people)

Fractions and Decimals 1 MA1-7NA Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections Use fraction notation $\frac{1}{2}$	Fractions and Decimals 2 MA1-7NA Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections Use fraction notation $\frac{1}{4}$ and $\frac{1}{8}$	Multiplication and Division 1 MA1-6NA 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	Multiplication and Division 2 MA1-6NA Model and use groups, arrays and repeated subtraction as strategies for division
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Content Cluster 25: A fraction can be represented in many ways e.g as length, area, or a collection (continuous and discrete representations)

Fractions and Decimals 1 MA1-7NA Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections Use fraction notation $\frac{1}{2}$	Fractions and Decimals 2 MA1-7NA Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections Use fraction notation $\frac{1}{4}$ and $\frac{1}{8}$	Multiplication and Division 1 MA1-6NA Model division by sharing a collection equally into a given number of groups to determine the number in each group	Length 2 MA1-9MG Use metres and centimetres to measure and estimate lengths and distances Record lengths using the abbreviations m and cm	Time 2 MA1-13MG Experience activities with duration of one hour, half/quarter of an hour, one minute and a few seconds
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Stage 1 Content Clusters

Content Cluster 26: Shape properties remain constant even when they are moved or reorientated (transforming shapes)

Three-Dimensional Space 1 MA1-14MG

Identify cones, cubes, cylinders, spheres and prisms presented in different orientations, in pictures and the environment
Recognise that three-dimensional objects look different from different vantage-points

Two-Dimensional Space 1 MA1-15MG

Identify and name triangles, quadrilaterals, pentagons, hexagons and octagons presented in different orientations, in pictures and the environment

Two-Dimensional Space 2 MA1-15MG

Make and draw two-dimensional shapes in different orientations
Identify, perform, describe and record the result of full, half and quarter 'turns'

Content Cluster 27: Shapes and objects are classified based on properties (describing and comparing features)

Three-Dimensional Space 1 MA1-14MG

Distinguish between flat and curved surfaces
Use the term 'faces' to describe flat surfaces with straight edges

Three-Dimensional Space 2 MA1-14MG

Use the terms 'flat surface', 'curved surface', 'face', 'edge' and 'vertex' appropriately to describe three-dimensional objects
Recognise faces of three-dimensional objects as two-dimensional shapes
Distinguish between three-dimensional objects and two-dimensional shapes
Represent three-dimensional objects in models and drawings

Two-Dimensional Space 1 MA1-15MG

Identify horizontal, vertical and parallel lines
Use the terms 'side' and 'vertex' to describe and compare two-dimensional shapes

Content Cluster 28: Patterns can be created using shapes (copying, turning, flipping, sliding)

Two-Dimensional Space 1 MA1-15MG

Identify horizontal, vertical and parallel lines

Two-Dimensional Space 2 MA1-15MG

Make and draw two-dimensional shapes in different orientations
Identify, perform and record the result of one-step 'slides' and 'flips'
Make symmetrical designs with a variety of materials
Identify, perform, describe and record the result of full, half and quarter 'turns'

Patterns and Algebra 1 MA1-8NA

Recognise, copy, create, continue and describe repeating patterns of objects or symbols

Stage 1 Content Clusters

Content Cluster 29: Locating: Your position can be described in relation to other objects or landmarks

Position 1 MA1-16MG

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

Describe a path from one location to another

Position 2 MA1-16MG

Interpret simple maps of familiar locations

Represent the position of objects in models, photographs and drawings

Two-Dimensional Space 2 MA1-15MG

Make and draw two-dimensional shapes in different orientations

Three-Dimensional Space 2 MA1-14MG

Represent three-dimensional objects in models and drawings

Content Cluster 30: Time can be measured in minutes and hours

Time 1 MA1-13MG

Tell time to the half-hour

Time 2 MA1-13MG

Experience activities with duration of one hour, half/quarter of an hour, one minute and a few seconds

Tell time to the quarter-hour, using the language of 'past' and 'to'

Fractions and Decimals 1 MA1-7NA

Recognise, describe and represent one-half as one of two equal parts of whole objects, shapes and collections

Content Cluster 31: Time (duration) can be visually represented in multiple ways e.g. calendars, clocks, timetables

Whole Numbers 1 MA1-4NA

Read and use ordinal names to at least 'thirty-first'

Time 1 MA1-13MG

Name and order months and seasons

Use a calendar to identify the date and determine the number of days in each month

Time 2 MA1-13MG

Use a calendar to determine duration in months, weeks and days

Use informal units to measure and compare the durations of events

Experience activities with duration of one hour, half/quarter of an hour, one minute and a few seconds

Stage 1 Content Clusters

Content Cluster 32: Collecting data: Information can be collected and represented using numbers

Data 1 MA1-17SP Collect data and track what has been counted Data 2 MA1-17SP Pose questions and collect categorical data	Whole Numbers 1 MA1-4NA Count forwards and backwards by ones from a two-digit number	Addition and Subtraction 2 MA1-5NA Solve word problems involving addition and subtraction	Addition and Subtraction 1 MA1-5NA Model addition and subtraction using concrete materials Record number sentences using drawings, words, numerals and the symbols +, – and =
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Content Cluster 33: Representing data: Information can be presented visually to convey meaning (data representations)

Data 1 MA1-17SP Create data displays using objects and pictures (one-to-one correspondence) and interpret them	Data 2 MA1-17SP Create data displays using lists, tables and picture graphs (one-to-one correspondence) and interpret them	Two-Dimensional Space 1 MA1-15MG Identify horizontal, vertical and parallel lines
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Content Cluster 34: Events can be measured and predicted based on chance

Chance 1 MA1-18SP Recognise the element of chance in familiar situations Describe chance events using everyday language	Chance 2 MA1-18SP 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'	Time 2 MA1-13MG Use informal units to measure and compare the durations of events
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Stage 2 Content Clusters

Content Cluster 1: Flexible counting (any number can be a countable unit)

Whole Numbers 1 MA2-4NA Count forwards and backwards by tens and hundreds from any starting point	Addition and Subtraction 1 MA2-5NA Perform calculations with money, including calculating equivalent amounts using different denominations	Multiplication and Division 1 MA2-6NA Recall multiplication facts for twos, threes, fives and tens	Patterns and Algebra 1 MA2-8NA Identify, continue, create, describe and record increasing and decreasing number patterns
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Content Cluster 2: Place value (numbers can be regrouped and renamed – partitioning)

Whole Numbers 1 MA2-4NA State the place value of digits in numbers of up to four digits	Whole Numbers 2 MA2-4NA State the place value of digits in numbers of up to five digits Record numbers of up to five digits using expanded notation	Addition and Subtraction 1 MA2-5NA Use and record a range of mental strategies for addition and subtraction of two-, three- and four-digit numbers Use the formal written algorithm for addition and subtraction	Addition and Subtraction 2 MA2-5NA Use and record a range of mental strategies for addition and subtraction of two-, three-, four- and five-digit numbers
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Content Cluster 3: Representing numbers (numbers can be represented and ordered based on their place value)

Whole Numbers 1 MA2-4NA Read, write and order numbers of up to four digits Whole Numbers 2 MA2-4NA Read, write and order numbers of up to five digits	Fractions and Decimals 1 MA2-7NA Model and represent fractions with denominators 2, 3, 4, 5 and 8 Count by halves, quarters and thirds, including with mixed numerals Represent fractions on number lines, including number lines that extend beyond 1	Fractions and Decimals 2 MA2-7NA Model and find equivalence between fractions with denominators 2, 4 and 8; 3 and 6; and 5, 10 and 100 Apply the place value system to represent tenths and hundredths as decimals	Length 1 MA2-9MG Use metres, centimetres and millimetres to measure, compare, order and estimate lengths
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Stage 2 Content Clusters

Content Cluster 4: Number representations (numbers can be represented by words/language, images/drawings, numbers/symbols)

Whole Numbers 1 MA2-4NA

Read, write and order numbers of up to four digits

Whole Numbers 2 MA2-4NA

Read, write and order numbers of up to five digits

Addition and Subtraction 1 MA2-5NA

Model and apply the associative property for addition

Multiplication and Division 1 MA2-6NA

Recognise and use the symbols \times and \div
Link multiplication and division using arrays

Model and apply to commutative property for multiplication

Fractions and Decimals 1 MA2-7NA

Model and represent fractions with denominators 2, 3, 4, 5 and 8

Fractions and Decimals 2 MA2-7NA

Model, compare and represent decimals with one and two decimal places

Content Cluster 5: Comparing quantities – linear focus (numbers can be compared based on size and place value)

Fractions and Decimals 1 MA2-7NA

Make connections between fraction and decimal notation

Model, compare and represent decimals with one and two decimal places

Represent decimals on number lines

Length 1 MA2-9MG

Use metres, centimetres and millimetres to measure, compare, order and estimate lengths

Length 2 MA2-9MG

Select and use appropriate scaled instruments and units to measure and compare lengths

Convert between metres, centimetres and millimetres
Record lengths and distances using decimal notation to two decimal places

Use a scaled instrument to measure and compare temperatures

Volume and Capacity 1 MA2-11MG

Use litres to measure, compare and estimate capacities and volumes

Volume and Capacity 2 MA2-11MG

Use litres and millilitres to measure, compare and estimate capacities and volumes

Stage 2 Content Clusters

Content Cluster 6: Comparing quantities – area/volume focus (numbers can be compared based on size and place value)			
Fractions and Decimals 1 MA2-7NA Make connections between fraction and decimal notation Model, compare and represent decimals with one and two decimal places	Area 1 MA2-10MG Use square centimetres and square metres to measure and estimate rectangular (and square) areas Area 2 MA2-10MG Measure and compare the areas of regular and irregular shapes using a square-centimetre grid Compare areas measured in square centimetres and square metres	Volume and Capacity 1 MA2-11MG Use cubic centimetres to measure and compare volumes Volume and Capacity 2 MA2-11MG Compare volumes of objects by submerging each in water	Mass 1 MA2-12MG Use kilograms to measure, compare, order and estimate masses Mass 2 MA2-12MG Use kilograms and grams to measure and compare masses using a scaled instrument
Content Cluster 7: Flexible strategies for operating with numbers (numbers can be partitioned to assist with computation)			
Addition and Subtraction 1 MA2-5NA Use and record a range of mental strategies for addition and subtraction of two-, three- and four-digit numbers Perform calculations with money, including calculating equivalent amounts using different denominations Addition and Subtraction 2 MA2-5NA Use and record a range of mental strategies for addition and subtraction of two-, three-, four- and five-digit numbers	Multiplication and Division 1 MA2-6NA Use mental strategies to multiply one-digit numbers by multiples of 10 Use and record a range of mental strategies for multiplication of two single-digit numbers Multiplication and Division 2 MA2-6NA Recall and use multiplication facts up to 10×10 with automaticity Relate multiplication facts to their inverse division facts Use and record a range of mental and informal written strategies for multiplication and division of two-digit numbers by a one-digit operator Use mental strategies and informal recording methods for division with remainders		

Stage 2 Content Clusters

Content Cluster 8: Partitioning: Part-whole number knowledge (numbers can be partitioned in multiple ways)			
Fractions and Decimals 1 MA2-7NA Model and represent fractions with denominators 2, 3, 4, 5 and 8 Count by halves, quarters and thirds, including with mixed numerals	Fractions and Decimals 2 MA2-7NA Model and find equivalence between fractions with denominators 2, 4 and 8; 3 and 6; and 5, 10 and 100 Model, compare and represent decimals with one and two decimal places	Multiplication and Division 2 MA2-6NA Use mental strategies and informal recording methods for division with remainders	Whole Numbers 2 MA2-4NA Record numbers of up to five digits using expanded notation
Content Cluster 9: Money uses a many-to-one scale			
Addition and Subtraction 1 MA2-5NA Perform calculations with money, including calculating equivalent amounts using different denominations Addition and Subtraction 2 MA2-5NA Solve word problems, including those involving money	Fractions and Decimals 2 MA2-7NA Apply the place value system to represent tenths and hundredths as decimals	Multiplication and Division 1 MA2-6NA Use mental strategies to multiply one-digit numbers by multiples of 10	Whole Numbers 1 MA2-4NA Count forwards and backwards by tens and hundreds from any starting point
Content Cluster 10: The 'equals sign' means "the same as" (equality and inequality)			
Addition and Subtraction 1 MA2-5NA Model and apply the associative property for addition Use the equals sign to record equivalent number sentences Addition and Subtraction 2 MA2-5NA Use the inverse operation to check addition and subtraction calculations	Multiplication and Division 1 MA2-6NA Recognise and use the symbols \times and \div Model and apply to commutative property for multiplication Multiplication and Division 2 MA2-6NA Relate multiplication facts to their inverse division facts Use the equals sign to record equivalent number relationships involving multiplication	Patterns and Algebra 2 MA2-8NA Find missing numbers in number sentences involving addition or subtraction on one or both sides of the equals sign Patterns and Algebra 2 MA2-8NA Find missing numbers in number sentences involving one operation of multiplication or division	Fractions and Decimals 2 MA2-7NA Model and find equivalence between fractions with denominators 2, 4 and 8; 3 and 6; and 5, 10 and 100

Stage 2 Content Clusters

Content Cluster 11: Number relationships – converting (one thousand can be regrouped as 10 hundreds, 100 tens, or 1000 ones)

Whole Numbers 2 MA2-4NA Record numbers of up to five digits using expanded notation	Length 1 MA2-9MG Use metres, centimetres and millimetres to measure, compare, order and estimate lengths Record lengths using the abbreviations m, cm and mm Length 2 MA2-9MG Convert between metres, centimetres and millimetres	Area 1 MA2-10MG Use square centimetres and square metres to measure and estimate rectangular (and square) areas Record lengths using the abbreviations cm^2 and m^2	Volume and Capacity 2 MA2-11MG Use litres and millilitres to measure, compare and estimate capacities and volumes Record capacities and volumes using the abbreviations L and mL Convert between litres and millilitres	Mass 2 MA2-12MG Use kilograms and grams to measure and compare masses using a scaled instrument Record masses using the abbreviations kg and g
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Content Cluster 12: Numbers can be represented using pairs to explore odd and even properties

Patterns and Algebra 1 MA2-8NA Identify odd and even numbers of up to four digits Patterns and Algebra 2 MA2-8NA Investigate and use the properties of odd and even numbers Recognise, continue and describe number patterns resulting from performing multiplication	Multiplication and Division 1 MA2-6NA Link multiplication and division using arrays Multiplication and Division 2 MA2-6NA Recall and use multiplication facts up to 10×10 with automaticity Relate multiplication facts to their inverse division facts Determine multiples and factors of whole numbers
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Stage 2 Content Clusters

Content Cluster 13: Patterns repeat or grow and future terms can be predicted (number structure)

Patterns and Algebra 1 MA2-8NA Identify, continue, create, describe and record increasing and decreasing number patterns Patterns and Algebra 2 MA2-8NA Recognise, continue and describe number patterns resulting from performing multiplication	Multiplication and Division 1 M2-6NA Recall multiplication facts for twos, threes, fives and tens Link multiplication and division using arrays	Fractions and Decimals 1 MA2-7NA Count by halves, quarters and thirds, including with mixed numerals	Whole Numbers 1 MA2-4NA Count forwards and backwards by tens and hundreds from any starting point Read, write and order numbers of up to four digits Whole Numbers 2 MA2-4NA Read, write and order numbers of up to five digits	Two-Dimensional Space 2 MA2-15MG Use transformations to create and describe symmetrical designs Create and record tessellating designs
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Content Cluster 14: Multiples can be visually represented as an array (number structure)

Multiplication and Division 1 MA2-6NA Link multiplication and division using arrays Model and apply to commutative property for multiplication Use mental strategies to multiply one-digit numbers by multiples of 10	Multiplication and Division 2 MA2-6NA Relate multiplication facts to their inverse division facts Determine multiples and factors of whole numbers Use and record a range of mental and informal written strategies for multiplication and division of two-digit numbers by a one-digit operator Use mental strategies and informal recording methods for division with remainders	Area 1 MA2-10MG Use square centimetres and square metres to measure and estimate rectangular (and square) areas Area 2 MA2-10MG Measure and compare the areas of regular and irregular shapes using a square-centimetre grid	Volume and Capacity 1 MA2-11MG Use cubic centimetres to measure and compare volumes	Patterns and Algebra 2 MA2-8NA Recognise, continue and describe number patterns resulting from performing multiplication
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Stage 2 Content Clusters

Content Cluster 15: The ‘for each’ concept – for each of these (how many rows), there are some of those (how much in each row)

Multiplication and Division 1 MA2-6NA

Link multiplication and division using arrays

Model and apply to commutative property for multiplication

Multiplication and Division 2 MA2-6NA

Determine multiples and factors of whole numbers

Patterns and Algebra 2 MA2-8NA

Recognise, continue and describe number patterns resulting from performing multiplication

Content Cluster 16: A fraction is a number that represents a relationship between parts and the whole

Fractions and Decimals 1 MA2-7NA

Count by halves, quarters and thirds, including with mixed numerals

Represent fractions on number lines, including number lines that extend beyond 1

Fractions and Decimals 2 MA2-7NA

Apply the place value system to represent tenths and hundredths as decimals

Make connections between fraction and decimal notation

Represent decimals on number lines

Angles 1 MA2-16MG

Identify and describe angles as measures of turn

Whole Numbers 2 MA2-4NA

Record numbers of up to five digits using expanded notation

Content Cluster 17: Fractions represent division (number relationships)

Fractions and Decimals 1 MA2-7NA

Model and represent fractions with denominators 2, 3, 4, 5 and 8

Fractions and Decimals 2 MA2-7NA

Model and find equivalence between fractions with denominators 2, 4 and 8; 3 and 6; and 5, 10 and 100

Multiplication and Division 1 MA2-6NA

Recall multiplication facts for twos, threes, fives and tens

Link multiplication and division using arrays

Multiplication and Division 2 MA2-6NA

Relate multiplication facts to their inverse division facts

Use mental strategies and informal recording methods for division with remainders

Stage 2 Content Clusters

Content Cluster 18: Time can be measured in hours, minutes and seconds (links to fractional language)			
Time 1 MA2-13MG Recognise the coordinated movements of the hands on a clock Read and record time to the minute, using digital notation and the terms 'past' and 'to'	Time 2 MA2-13MG Convert between seconds, minutes, hours and days Use and interpret am and pm notation	Fractions and Decimals 1 MA2-7NA Model and represent fractions with denominators 2, 3, 4, 5 and 8 Count by halves, quarters and thirds, including with mixed numerals	Angles 1 MA2-16MG Identify and describe angles as measures of turn Compare angle sizes in everyday situations
Content Cluster 19: Measurements are approximations and can be represented using formal units			
Length 1 MA2-9MG Record lengths using the abbreviations m, cm and mm Length 2 MA2-9MG Select and use appropriate scaled instruments and units to measure and compare lengths Record temperatures using the symbol for degrees (°)	Area 1 MA2-10MG Recognise the need for formal units to measure area Record lengths using the abbreviations cm ² and m ²	Volume and Capacity 1 MA2-11MG Recognise the need for formal units to measure capacity and volume Record capacities and volumes using the abbreviations L and cm ³ Volume and Capacity 2 MA2-11MG Record capacities and volumes using the abbreviations L and mL	Mass 1 MA2-12MG Recognise the need for formal units to measure mass Record masses using the abbreviation kg

Stage 2 Content Clusters

Content Cluster 20: Benchmark numbers can be used to estimate quantities (how much/how many)

Length 1 MA2-9MG

Use metres, centimetres and millimetres to measure, compare, order and estimate lengths

Length 2 MA2-9MG

Estimate and measure perimeters of two-dimensional shapes

Area 1 MA2-10MG

Use square centimetres and square metres to measure and estimate rectangular (and square) areas

Volume and Capacity 1 MA2-11MG

Use litres to measure, compare and estimate capacities and volumes

Volume and Capacity 2 MA2-11MG

Use litres and millilitres to measure, compare and estimate capacities and volumes

Mass 1 MA2-12MG

Use kilograms to measure, compare, order and estimate masses

Content Cluster 21: Numbers and quantities can be compared using scale (links to proportionality)

Addition and Subtraction 1 MA2-5NA

Use and record a range of mental strategies for addition and subtraction of two-, three- and four-digit numbers

Length 1 MA2-9MG

Use metres, centimetres and millimetres to measure, compare, order and estimate lengths

Length 2 MA2-9MG

Convert between metres, centimetres and millimetres

Position 1 MA2-17MG

Draw simple maps, with and without a grid

Position 2 MA2-17MG

Interpret legends and directions on maps

Use the scale to calculate the distance between two points on maps

Data 1 MA2-18SP

Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs (one-to-one correspondence)

Data 2 MA2-18SP

Construct data displays, including tables, and column graphs and picture graphs of many-to-one correspondence

Time 2 MA2-13MG

Read and interpret simple timetables, timelines and calendars

Stage 2 Content Clusters

Content Cluster 22: Objects can be measured and compared through different representations

Three-dimensional Space 1 MA2-14MG Make models of three-dimensional objects Create nets from everyday packages	Three-Dimensional Space 2 MA2-14MG Represent three-dimensional objects in drawings showing depth Sketch three-dimensional objects from different views Interpret and make drawings of objects on isometric grid paper	Volume and Capacity 1 MA2-11MG Use cubic centimetres to measure and compare volumes	Multiplication and Division 2 MA2-6NA Use and record a range of mental and informal written strategies for multiplication and division of two-digit numbers by a one-digit operator
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Content Cluster 23: Shapes can be measured and compared through different representations

Two-Dimensional Space 1 MA2-15MG Combine common shapes to form other shapes and record the arrangement Split common shapes into other shapes and record the result	Area 2 MA2-10MG Measure and compare the areas of regular and irregular shapes using a square-centimetre grid Compare areas measured in square centimetres and square metres	Length 2 MA2-9MG Estimate and measure perimeters of two-dimensional shapes	Angles 1 MA2-16MG Compare angle sizes in everyday situations
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Content Cluster 24: Shape properties remain constant even when they are moved or reorientated (transforming shapes)

Three-Dimensional Space 1 MA2-14MG Identify, describe and compare features of prisms, pyramids, cylinders, cones and spheres	Three-Dimensional Space 2 MA2-14MG Sketch three-dimensional objects from different views Interpret and make drawings of objects on isometric grid paper	Two-Dimensional Space 1 MA2-15MG Identify and name the special quadrilaterals presented in different orientations Identify and describe shapes as 'regular' or 'irregular' Describe and compare features of shapes, including the special quadrilaterals	Two-Dimensional Space 2 MA2-15MG Use transformations to create and describe symmetrical designs Create and record tessellating designs
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Stage 2 Content Clusters

Content Cluster 25: Shapes and objects are classified based on properties (comparing features)

Three-Dimensional Space 1 MA2-14MG

Identify, describe and compare features of prisms, pyramids, cylinders, cones and spheres

Two-Dimensional Space 1 MA2-15MG

Identify and name the special quadrilaterals presented in different orientations

Identify and describe shapes as 'regular' or 'irregular'

Describe and compare features of shapes, including the special quadrilaterals

Identify and draw lines of symmetry on shapes

Angles 1 MA2-16MG

Identify 'perpendicular' lines and 'right angles'

Angles 2 MA2-16MG

Draw and classify angles as acute, obtuse, straight, reflex or a revolution

Content Cluster 26: Patterns can be created using shapes (copying, rotating, translating and reflecting)

Patterns and Algebra 1 MA2-8NA

Identify, continue, create, describe and record increasing and decreasing number patterns

Patterns and Algebra 2 MA2-8NA

Recognise, continue and describe number patterns resulting from performing multiplication

Two-Dimensional Space 1 MA2-15MG

Identify and draw lines of symmetry on shapes

Two-Dimensional Space 2 MA2-15MG

Combine common shapes to form other shapes and record the arrangement

Split common shapes into other shapes and record the result

Use transformations to create and describe symmetrical designs

Create and record tessellating designs

Angles 1 MA2-16MG

Identify 'perpendicular' lines and 'right angles'

Angles 2 MA2-16MG

Draw and classify angles as acute, obtuse, straight, reflex or a revolution

Stage 2 Content Clusters

Content Cluster 27: Locating and positioning is based on references (to points or one's self)

Position 1 MA2-17MG

Use grid-referenced maps to locate and describe positions and pathways
Draw simple maps, with and without a grid

Position 2 MA2-17MG

Determine directions N, E, S, W and NE, SE, SW, NW, given one of the directions
Interpret legends and directions on maps

Two-Dimensional Space 1 MA2-15MG

Identify and name the special quadrilaterals presented in different orientations

Three-Dimensional Space 2 MA2-14MG

Sketch three-dimensional objects from different views

Content Cluster 28: Information can be collected, represented and analysed using numbers (collecting data)

Data 1 MA2-18SP

Plan methods for data collection
Interpret and compare data displays

Data 2 MA2-18SP

Select, trial and refine methods for data collection, including survey questions and recording sheets
Evaluate the effectiveness of different displays

Chance 1 MA2-19SP

Identify and describe possible 'outcomes' of chance experiments
Predict and record all possible combinations in a chance situation
Conduct chance experiments and compare predicted with actual results

Addition and Subtraction 2 MA2-5NA

Use and record a range of mental strategies for addition and subtraction of two-, three-, four- and five-digit numbers

Content Cluster 29: Information can be presented visually to convey meaning (data representations)

Data 1 MA2-18SP

Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs (one-to-one correspondence)

Data 2 MA2-18SP

Construct data displays, including tables, and column graphs and picture graphs of many-to-one correspondence

Angles 1 MA2-16MG

Identify 'perpendicular' lines and 'right angles'

Length 2 MA2-9MG

Select and use appropriate scaled instruments and units to measure and compare lengths

Stage 2 Content Clusters

Content Cluster 30: Events can be predicted, measured, and discussed based on chance			
Chance 1 MA2-19SP Conduct chance experiments and compare predicted with actual results	Chance 2 MA2-19SP Describe possible everyday events and order their chances of occurring Identify everyday events where one occurring cannot happen if the other happens Identify events where the chance of one occurring will not be affected by the occurrence of the other	Data 2 MA2-18SP Select, trial and refine methods for data collection, including survey questions and recording sheets	Addition and Subtraction 1 MA2-5NA Use and record a range of mental strategies for addition and subtraction of two-, three- and four-digit numbers

Stage 3 Content Clusters

Content Cluster 1: Place value (numbers can be regrouped and renamed – partitioning)

Whole Numbers 1 MA3-4NA

State the place value of digits in numbers of any size
Record numbers of any size using expanded notation

Whole Numbers 2 MA3-4NA

Identify and describe prime and composite numbers

Fractions and Decimals 1 MA3-7NA

Apply the place value system to represent thousandths as decimals

Express mixed numerals as improper fractions and vice versa

Fractions and Decimals 2 MA3-7NA

Multiply and divide decimals by 10, 100 and 1000

Write fractions in their 'simplest form'

Content Cluster 2: Representing numbers (numbers can be represented, ordered and compared based on their place value)

Whole Numbers 1 MA3-4NA

Read, write and order numbers of any size

Whole Numbers 2 MA3-4NA

Recognise the location of negative numbers in relation to zero on a number line

Fractions and Decimals 1 MA3-7NA

Compare and order unit fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100

Compare, order and represent decimals with up to three decimal places

Fractions and Decimals 2 MA3-7NA

Represent, compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100

Length 2 MA3-9MG

Record lengths and distances using decimal notation to three decimal places

Volume and Capacity 2 MA3-11MG

Record volumes and capacities using decimal notation to three decimal places

Mass 2 MA3-12MG

Record mass using decimal notation to three decimal places

Stage 3 Content Clusters

Content Cluster 3: Comparing quantities – linear focus (numbers can be compared based on size and place value)

Fractions and Decimals 1 MA3-7NA Compare and order unit fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100 Compare, order and represent decimals with up to three decimal places	Length 1 MA3-9MG Use the kilometre to measure lengths and distances Select and use appropriate instruments and units to measure lengths Record lengths and distances using the abbreviations km, m, cm and mm	Length 2 MA3-9MG Record lengths and distances using decimal notation to three decimal places Convert between kilometres, metres, centimetres and millimetres	Volume and Capacity 2 MA3-11MG Record volumes and capacities using decimal notation to three decimal places Convert between millilitres and litres
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Content Cluster 4: Comparing quantities – area/volume/mass focus (numbers can be compared based on size and place value)

Fractions and Decimals 1 MA3-7NA Compare and order unit fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100 Compare, order and represent decimals with up to three decimal places	Area 1 MA3-10MG Recognise the need for square kilometres and hectares to measure area Record areas using the abbreviations km ² and ha	Volume and Capacity 1 MA3-11MG Use cubic centimetres and cubic metres to measure and estimate volumes Select and use appropriate units to measure volume Record volumes using the abbreviations cm ³ and m ³	Mass 1 MA3-12MG Recognise the need for tonnes to measure mass Record masses using the abbreviations t, kg and g Select and use appropriate instruments and units to measure mass Solve problems involving mass Mass 2 MA3-12MG Record mass using decimal notation to three decimal places Convert between tonnes, kilograms and grams
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Stage 3 Content Clusters

Content Cluster 5: Partitioning: Part-whole number knowledge (numbers can be partitioned in multiple ways)			
Whole Numbers 1 MA3-4NA Record numbers of any size using expanded notation Whole Numbers 2 MA3-4NA Identify and describe prime and composite numbers	Fractions and Decimals 1 MA3-7NA Compare and order unit fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100 Express mixed numerals as improper fractions and vice versa	Fractions and Decimals 2 MA3-7NA Represent, compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100 Write fractions in their 'simplest form'	Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to divide numbers with three or more digits by a one-digit operator, including problems that result in a remainder
Content Cluster 6: Flexible strategies for operating with numbers (numbers can be partitioned to assist with computation)			
Addition and Subtraction 1 MA3-5NA Select and apply efficient mental, written and calculator strategies for addition and subtraction of numbers of any size	Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to multiply by one- and two-digit operators Use and record a range of mental and written strategies to divide numbers with three or more digits by a one-digit operator, including problems that result in a remainder	Fractions and Decimals 1 MA3-7NA Model and represent strategies to add and subtract fractions with the same denominator Fractions and Decimals 2 MA3-7NA Add and subtract fractions, included mixed numerals, with the same or related denominators Use mental, written and calculator strategies to add and subtract decimals with up to three decimal places Use mental, written and calculator strategies to multiply decimals by one- and two-digit whole numbers Use mental, written and calculator strategies to divide decimals by one-digit whole numbers	

Stage 3 Content Clusters

Content Cluster 7: A variety of strategies can be applied to solve word problems

Addition and Subtraction 1 MA3-5NA Solve word problems and record the strategy used, including problems involving money	Addition and Subtraction 2 MA3-5NA Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used	Multiplication and Division 1 MA3-6NA Solve word problems and record the strategy used Multiplication and Division 2 MA3-6NA Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used	Fractions and Decimals 2 MA3-7NA Solve word problems involving fractions and decimals, including money problems
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Content Cluster 8: Multiples can be visually represented as an array ('for each' number structure)

Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to multiply by one- and two-digit operators Use and record a range of mental and written strategies to divide numbers with three or more digits by a one-digit operator, including problems that result in a remainder	Multiplication and Division 2 MA3-6NA Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used	Area 1 MA3-10MG Develop a strategy to find areas of rectangles (including squares) and record the strategy in words Area 2 MA3-10MG Develop a strategy to find areas of triangles and record the strategy in words	Volume and Capacity 2 MA3-11MG Develop a strategy to find volumes of rectangular prisms and record the strategy in words	Patterns and Algebra 2 MA3-8NA Continue, create, record and describe geometric and number patterns in words
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Stage 3 Content Clusters

Content Cluster 9: Reasonableness of solutions can be checked using estimation

Addition and Subtraction 1 MA3-5NA Use estimation to check answers to calculations Solve word problems and record the strategy used, including problems involving money	Multiplication and Division 1 MA3-6NA Solve word problems and record the strategy used Use estimation to check answers to calculations	Multiplication and Division 2 MA3-6NA Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used	Fractions and Decimals 2 MA3-7NA Solve word problems involving fractions and decimals, including money problems
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Content Cluster 10: Benchmark numbers can be used to estimate quantities (how much/how many)

Addition and Subtraction 1 MA3-5NA Use estimation to check answers to calculations	Multiplication and Division 1 MA3-6NA Solve word problems and record the strategy used Use estimation to check answers to calculations	Fractions and Decimals 2 MA3-7NA Make connections between equivalent percentages, fractions and decimals	Volume and Capacity 1 MA3-11MG Use cubic centimetres and cubic metres to measure and estimate volumes Select and use appropriate units to measure volume	Angles 1 MA3-16MG Measure, compare and estimate angles in degrees (up to 360°) Record angle measurements using the symbol for degrees (°)
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Stage 3 Content Clusters

Content Cluster 11: Number relationships – converting (e.g. one thousand can be regrouped as 10 hundreds, 100 tens, or 1000 ones)

Whole Numbers 1 MA3-4NA Read, write and order numbers of any size State the place value of digits in numbers of any size Record numbers of any size using expanded notation	Multiplication and Division 1 MA3-6NA Use the formal algorithm for multiplication by one- and two-digit operators	Fractions and Decimals 1 MA3-7NA Apply the place value system to represent thousandths as decimals Fractions and Decimals 2 MA3-7NA Multiply and divide decimals by 10, 100 and 1000	Length 2 MA3-9MG Convert between kilometres, metres, centimetres and millimetres	Volume and Capacity 2 MA3-11MG Convert between millilitres and litres	Mass 2 MA3-12MG Convert between tonnes, kilograms and grams
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Content Cluster 12: Money uses a many-to-one scale (link to place value e.g. 100 cents is equal to \$1)

Addition and Subtraction 1 MA3-5NA Solve word problems and record the strategy used, including problems involving money Create a simple budget	Multiplication and Division 1 MA3-6NA Solve word problems and record the strategy used Interpret remainders in division problems	Fractions and Decimals 2 MA3-7NA Solve word problems involving fractions and decimals, including money problems Use mental, written and calculator strategies to calculate 10%, 25% and 50% of quantities, including as discounts
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Content Cluster 13: The 'equals sign' means "the same as" (equality and inequality)

Multiplication and Division 2 MA3-6NA Recognise and use grouping symbols Apply the order of operations in calculations	Patterns and Algebra 1 MA3-8NA Find missing numbers in number sentences involving multiplication or division on one or both sides of the equals sign	Fractions and Decimals 2 MA3-7NA Determine, generate and record equivalent fractions Make connections between equivalent percentages, fractions and decimals
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Stage 3 Content Clusters

Content Cluster 14: Numbers can be represented using pairs to explore odd and even properties

Patterns and Algebra 1 MA3-8NA

Identify, continue create and describe increasing and decreasing number patterns with fractions, decimals and whole numbers

Whole Numbers 1 MA3-4NA

Determine factors and multiples of whole numbers

Whole Numbers 2 MA3-4NA

Identify and describe prime and composite numbers

Model and describe square and triangular numbers

Content Cluster 15: Patterns repeat or grow and future terms can be predicted (number structure)

Patterns and Algebra 1 MA3-8NA

Identify, continue create and describe increasing and decreasing number patterns with fractions, decimals and whole numbers

Multiplication and Division 1 MA3-6NA

Use and record a range of mental and written strategies to multiply by one- and two-digit operators

Fractions and Decimals 1 MA3-7NA

Model and represent strategies to add and subtract fractions with the same denominator

Fractions and Decimals 2 MA3-7NA

Use mental, written and calculator strategies to add and subtract decimals with up to three decimal places

Use mental, written and calculator strategies to multiply decimals by one- and two-digit whole numbers

Use mental, written and calculator strategies to divide decimals by one-digit whole numbers

Whole Numbers 1 MA3-4NA

Read, write and order numbers of any size

Whole Numbers 2 MA3-4NA

Model and describe square and triangular numbers

Addition and Subtraction 1 MA3-5NA

Select and apply efficient mental, written and calculator strategies for addition and subtraction of numbers of any size

Stage 3 Content Clusters

Content Cluster 16: Patterns can be represented geometrically				
Patterns and Algebra 2 MA3-8NA Continue, create, record and describe geometric and number patterns in words Determine the rule for geometric and number patterns in words and use the rule to calculate values	Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to multiply by one- and two-digit operators	Two-Dimensional Space 1 MA3-15MG Classify and draw regular and irregular two-dimensional shapes from descriptions of their features Use the terms 'translate', 'reflect' and 'rotate' to describe transformations of shapes Two-Dimensional Space 2 MA3-15MG Identify, use and describe combinations of translations, reflections and rotations	Whole Numbers 1 MA3-4NA Read, write and order numbers of any size Whole Numbers 2 MA3-4NA Model and describe square and triangular numbers	Addition and Subtraction 1 MA3-5NA Select and apply efficient mental, written and calculator strategies for addition and subtraction of numbers of any size
Content Cluster 17: A fraction is a number (that represents a relationship between parts and the whole)				
Fractions and Decimals 1 MA3-7NA Compare and order unit fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100 Express mixed numerals as improper fractions and vice versa	Fractions and Decimals 2 MA3-7NA Represent, compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100 Determine, generate and record equivalent fractions Write fractions in their 'simplest form' Make connections between equivalent percentages, fractions and decimals		Whole Numbers 2 MA3-4NA Read, write and order numbers of any size State the place value of digits in numbers of any size Record numbers of any size using expanded notation	

Stage 3 Content Clusters

Content Cluster 18: Fractions represent division (number relationships)			
Fractions and Decimals 1 MA3-7NA Compare and order unit fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100 Express mixed numerals as improper fractions and vice versa	Fractions and Decimals 2 MA3-7NA Represent, compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100 Determine, generate and record equivalent fractions Write fractions in their 'simplest form'	Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to divide numbers with three or more digits by a one-digit operator, including problems that result in a remainder Interpret remainders in division problems	Patterns and Algebra 1 MA3-8NA Identify, continue create and describe increasing and decreasing number patterns with fractions, decimals and whole numbers

Content Cluster 19: Fractions as a measure			
Fractions and Decimals 1 MA3-7NA Model and represent strategies to add and subtract fractions with the same denominator	Fractions and Decimals 2 MA3-7NA Add and subtract fractions, included mixed numerals, with the same or related denominators	Length 1 MA3-9MG Record lengths and distances using the abbreviations km, m, cm and mm Find perimeters of common two-dimensional shapes and record the strategy Length 2 MA3-9MG Convert between kilometres, metres, centimetres and millimetres Solve problems involving length and perimeter	Area 1 MA3-10MG Recognise the need for square kilometres and hectares to measure area Record areas using the abbreviations km ² and ha Develop a strategy to find areas of rectangles (including squares) and record the strategy in words Area 2 MA3-10MG Develop a strategy to find areas of triangles and record the strategy in words Solve problems involving areas of rectangles (including squares) and triangles

Stage 3 Content Clusters

Content Cluster 20: Fractions as an operator			
Fractions and Decimals 2 MA3-7NA Multiply fractions by whole numbers Find a simple fraction of a quantity Solve word problems involving fractions and decimals, including money problems Make connections between equivalent percentages, fractions and decimals Use mental, written and calculator strategies to calculate 10%, 25% and 50% of quantities, including as discounts	Addition and Subtraction 1 MA3-5NA Solve word problems and record the strategy used, including problems involving money Create a simple budget	Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to multiply by one- and two-digit operators	Area 2 MA3-10MG Solve problems involving areas of rectangles (including squares) and triangles
Content Cluster 21: Time can be measured and compared in hours, minutes and seconds (relating 12 to 24 hour time)			
Time 1 MA3-13MG Convert between 12- and 24-hour time Determine and compare the duration of events	Time 2 MA3-13MG Interpret and use timetables	Fractions and Decimals 1 MA3-7NA Model and represent strategies to add and subtract fractions with the same denominator	Addition and Subtraction 2 MA3-5NA Select and apply efficient mental, written and calculator strategies to solve word problems and record the strategy used

Stage 3 Content Clusters

Content Cluster 22: Numbers and quantities can be compared using scale (links to proportionality)					
Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to multiply by one- and two-digit operators	Length 1 MA3-9MG Select and use appropriate instruments and units to measure lengths Record lengths and distances using the abbreviations km, m, cm and mm Length 2 MA3-9MG Convert between kilometres, metres, centimetres and millimetres	Position MA3-17MG Use grid-referenced maps to locate and describe positions Follow a sequence of directions, including compass directions, to find a particular location on a map Describe routes using landmarks and directional language	Data 1 MA3-18SP Construct data displays, including tables, column graphs, dot plots and line graphs, appropriate for the data type Describe and interpret data presented in tables, column graphs, dot plots and line graphs	Time 2 MA3-13MG Draw and interpret timelines using a given scale	Two-Dimensional Space 1 MA3-15MG Make and compare enlargements of shapes/pictures
Content Cluster 23: Measurements are approximations and can be represented using formal units					
Length 1 MA3-9MG Record lengths and distances using the abbreviations km, m, cm and mm Length 2 MA3-9MG Record lengths and distances using decimal notation to three decimal places	Area 1 MA3-10MG Record areas using the abbreviations km ² and ha	Volume and Capacity 1 MA3-11MG Record volumes using the abbreviations cm ³ and m ³ Volume and Capacity 2 MA2-11MG Record volumes and capacities using decimal notation to three decimal places Convert between millilitres and litres	Mass 1 MA3-12MG Recognise the need for tonnes to measure mass Record masses using the abbreviations t, kg and g Distinguish between 'gross mass' and 'net mass' Mass 2 MA3-12MG Record mass using decimal notation to three decimal places	Angles 1 MA3-16MG Recognise the need for formal units to measure angles Record angle measurements using the symbol for degrees (°) Construct angles using a protractor (up to 360°) Describe angle size in degrees for each angle classification	

Stage 3 Content Clusters

Content Cluster 24: The multiplicative structure (row and column) can be applied to measure area and volume

Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to multiply by one- and two-digit operators	Fraction and Decimals 2 MA3-7NA Use mental, written and calculator strategies to multiply decimals by one- and two-digit whole numbers	Area 1 MA3-10MG Develop a strategy to find areas of rectangles (including squares) and record the strategy in words Area 2 MA3-10MG Develop a strategy to find areas of triangles and record the strategy in words	Volume and Capacity 2 MA3-11MG Develop a strategy to find volumes of rectangular prisms and record the strategy in words	Three-Dimensional Space 2 MA3-14MG Construct prisms and pyramids using a variety of materials, and given drawings from different views
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Content Cluster 25: Objects can be measured and compared through different representations

Three-dimensional Space 1 MA3-14MG Describe and compare properties of prisms and pyramids in terms of their faces, edges and vertices Connect three-dimensional objects with their nets Three-Dimensional Space 2 MA3-14MG Construct prisms and pyramids using a variety of materials, and given drawings from different views	Volume and Capacity 1 MA3-11MG Use cubic centimetres and cubic metres to measure and estimate volumes Select and use appropriate units to measure volume Volume and Capacity 2 MA3-11MG Connect volume and capacity and their units of measurement Develop a strategy to find volumes of rectangular prisms and record the strategy in words	Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to multiply by one- and two-digit operators
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Stage 3 Content Clusters

Content Cluster 26: Shapes can be measured and compared through different representations			
Two-Dimensional Space 1 MA3-15MG Identify, name and draw right-angled, equilateral, isosceles and scalene triangles Compare and describe side properties of the special quadrilaterals and special triangles Explore angle properties of the special quadrilaterals and special triangles	Area 1 MA3-10MG Develop a strategy to find areas of rectangles (including squares) and record the strategy in words Area 2 MA3-10MG Develop a strategy to find areas of triangles and record the strategy in words	Length 1 MA3-9MG Find perimeters of common two-dimensional shapes and record the strategy	Angles 1 MA3-16MG Measure, compare and estimate angles in degrees (up to 360°) Describe angle size in degrees for each angle classification
Content Cluster 27: Shape and objects are classified based on their properties			
Three-Dimensional Space 1 MA3-14MG Name prisms and pyramids according to the shape of their 'base' Recognise that prisms have a uniform cross-section and pyramids do not Describe and compare properties of prisms and pyramids in terms of their faces, edges and vertices	Two-Dimensional Space 1 MA3-15MG Identify, name and draw right-angled, equilateral, isosceles and scalene triangles Compare and describe side properties of the special quadrilaterals and special triangles Explore angle properties of the special quadrilaterals and special triangles Classify and draw regular and irregular two-dimensional shapes from descriptions of their features Identify line and rotational symmetries	Two-Dimensional Space 2 MA3-15MG Identify, describe, compare and draw diagonals of two-dimensional shapes Identify and name parts of circles	Angles 2 MA3-16MG Identify and name angle types formed by the intersection of straight lines, including 'angles on a straight line', 'angles at a point' and 'vertically opposite angles' Use known angle results to find unknown angles in diagrams

Stage 3 Content Clusters

Content Cluster 28: Grid references and coordinates can be used for locating and positioning

Position 1 MA3-17MG Use grid-referenced maps to locate and describe positions	Patterns and Algebra 2 MA3-8NA Locate and record the coordinates of points in all four quadrants of the Cartesian plane	Two-Dimensional Space 1 MA3-15MG Use the terms 'translate', 'reflect' and 'rotate' to describe transformations of shapes Make and compare enlargements of shapes/pictures Two-Dimensional Space 2 MA3-15MG Identify, use and describe combinations of translations, reflections and rotations	Three-Dimensional Space 2 MA3-14MG Construct prisms and pyramids using a variety of materials, and given drawings from different views
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Content Cluster 29: Information can be collected, analysed and interpreted using numbers (collecting data)

Data 1 MA3-18SP Collect categorical and numerical data by observation and by survey Describe and interpret data presented in tables, column graphs, dot plots and line graphs	Data 2 MA3-18SP Interpret and create two-way tables Interpret side-by-side column graphs Compare a range of data displays to determine the most appropriate display for particular sets of data Interpret and critically evaluate data presented in digital media and elsewhere	Chance 1 MA3-19SP List outcomes of chance experiments involving equally likely outcomes Chance 2 MA3-19SP Conduct chance experiments with both small and large numbers of trials	Addition and Subtraction 1 MA3-5NA Select and apply efficient mental, written and calculator strategies for addition and subtraction of numbers of any size	Multiplication and Division 1 MA3-6NA Use and record a range of mental and written strategies to divide numbers with three or more digits by a one-digit operator
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Stage 3 Content Clusters

Content Cluster 30: Information can be presented visually to convey meaning (data representations and exploring bias)

Data 1 MA3-18SP

Construct data displays, including tables, column graphs, dot plots and line graphs, appropriate for the data type

Data 2 MA3-18SP

Interpret and create two-way tables
Compare a range of data displays to determine the most appropriate display for particular sets of data

Angles 1 MA3-16MG

Construct angles using a protractor (up to 360°)

Length 1 MA3-9MG

Select and use appropriate instruments and units to measure lengths

Content Cluster 31: Events can be predicted, compared, and analysed based on probability

Chance 1 MA3-19SP

List outcomes of chance experiments involving equally likely outcomes

Chance 2 MA3-19SP

Compare observed frequencies in chance experiments with expected frequencies
Conduct chance experiments with both small and large numbers of trials

Data 1 MA3-18SP

Collect categorical and numerical data by observation and by survey
Describe and interpret data presented in tables, column graphs, dot plots and line graphs

Data 2 MA3-18SP

Interpret and critically evaluate data presented in digital media and elsewhere

Content Cluster 32: Probabilities of events can be described in a range of 0 – 1 (probabilities as fractions of a whole)

Chance 1 MA3-19SP

Represent probabilities using fractions
Recognise that probabilities range from 0 to 1

Chance 2 MA3-19SP

Compare observed frequencies in chance experiments with expected frequencies
Represent probabilities using fractions, decimals and percentages

Data 1 MA3-18SP

Collect categorical and numerical data by observation and by survey

Fractions and Decimals 2 MA3-7NA

Represent, compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100
Solve word problems involving fractions and decimals