

Syllabus comparison chart

NSW Mathematics K-10 Syllabus (2012)				NSW Mathematics 3-6 Syllabus (2023)				Activities (courses): Topics	Skill Quests
Strand	Substrands	Outcomes	Code	Strand	Substrands	Outcomes	Code	NSW New Syllabus (2023) S3 Year 5	
Number and Algebra	Whole Numbers 1	orders, reads and represents integers of any size and describes properties of whole numbers	MA3-4NA	Number and Algebra	Represents numbers A	applies an understanding of place value and the role of zero to represent the properties of numbers	MA3-RN-01	Represents numbers: whole number (A)	Represent numbers of any size
	Addition and Subtraction 1	selects and applies appropriate strategies for addition and subtraction with counting numbers of any size	MA3-5NA			compares and orders decimals up to 3 decimal places	MA3-RN-02	Represents numbers: decimals (A)	Compare & order decimals
						Determines percentages of quantities, and finds equivalent fractions and decimals for benchmark percentage values	MA3-RN-03		Convert fraction, decimal & percentage Calculate percentage of an amount
					Additive relations A	selects and applies appropriate strategies to solve addition and subtraction problems	MA3-AR-01	Additive relations: add sub strategies (A)	Add & subtract numbers of any size Add & subtract to 1 decimal place Add & subtract to 2 decimal places
					Multiplicative relations A	selects and applies appropriate strategies to solve multiplication and division problems	MA3-MR-01	Multiplicative relations (A)	Multiply by multiples of 10 Multiply using double & halve strategy Multiply up to 4 digits by 1 digit Multiply up to 4 digits by 2 digits Division with remainders Divide up to 4 digits by 1-digit numbers Use products, factors & primes
Multiplicative relations: more strategies (A)	Multiplicative number sentences								
Patterns and Algebra 1	analyses and creates geometric and number patterns, constructs and completes number sentences, and locates points on the Cartesian plane	MA3-8NA		constructs and completes number sentences involving multiplicative relations, applying the order of operations to calculations	MA3-MR-02				
Fractions and Decimals 1	compares, orders and calculates with fractions, decimals and percentages	MA3-7NA	Number and Algebra	Representing quantity fractions A	compares and orders fractions with denominators of 1, 3, 4, 5, 6, 8 and 10	MA3-RQF-01	Represents quantity fractions (A)	Fractions Compare fractions with same denominator Add/subtract fractions: same denominator	
					determines $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$ and $\frac{1}{10}$ of measures and quantities	MA3-RQF-02			

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Measurement and Geometry	Position 1	locates and describes position on maps using a grid-reference system	MA3-17MG	Measurement and Space	Geometric measure A: Position	locates and describes points on a coordinate plane	MA3-GM-01	Geometric measure: coordinate plane (A)	Locate position in the first quadrant
	Length 1	selects and uses the appropriate unit and device to measure lengths and distances, calculates perimeters, and converts between units of length	MA3-9MG		Geometric measure A: Length	selects and uses the appropriate unit and device to measure lengths and distances including perimeters	MA3-GM-02	Geometric measure: length and perimeter (A)	Use appropriate measures for length
	Angles 1	measures and constructs angles, and applies angle relationships to find unknown angles	MA3-16MG		Geometric measure A: Angle	measures and constructs angles, and identifies the relationships between angles on a straight line and angles at a point	MA3-GM-03	Geometric measure: angle (A)	Measure & identify angles
	Two-dimensional Space 1	manipulates, classifies and draws two-dimensional shapes, including equilateral, isosceles and scalene triangles, and describes their properties	MA3-15MG		Two-dimensional spatial structure A: 2D shapes	investigates and classifies two-dimensional shapes, including triangles and quadrilaterals based on their properties	MA3-2DS-01	2D spatial structure: classify shapes (A)	Describe properties of 2D shapes
	Area 1	selects and uses the appropriate unit to calculate areas, including areas of squares, rectangles and triangles	MA3-10MG		Two-dimensional spatial structure A: Area	selects and uses the appropriate unit to calculate areas, including areas of rectangles	MA3-2DS-02	2D spatial structure: area (A)	Calculate area of rectangles
						combines, splits and rearranges shapes to determine the area of parallelograms and triangles	MA3-2DS-03		
	Three-dimensional Space 1	identifies three-dimensional objects, including prisms and pyramids, on the basis of their properties, and visualises, sketches and constructs them given drawings of different views	MA3-14MG		Three-dimensional spatial structure A: 3D Objects	visualises, sketches and constructs three-dimensional objects, including prisms and pyramids, making connections to two-dimensional representations	MA3-3DS-01	3D spatial structure: prisms & pyramids (A)	Connect 3D with 2D representations
	Volume and Capacity 1	selects and uses the appropriate unit to estimate, measure and calculate volumes and capacities, and converts between units of capacity	MA3-11MG		Three-dimensional spatial structure A: Volume	selects and uses the appropriate unit to estimate, measure and calculate volumes and capacities	MA3-3DS-02	3D spatial structure: volume (A)	Use appropriate units for capacity Investigate volume using blocks
	Mass 1	selects and uses the appropriate unit and device to measure the masses of objects, and converts between units of mass	MA3-12MG		Non-spatial measure A: Mass	selects and uses the appropriate unit and device to measure the masses of objects	MA3-NSM-01	Non-spatial measure: mass (A)	Use appropriate units for mass
Time 1	uses 14-hour time and am and pm notation in real-life situations, and constructs timelines	MA3-13MG	Non-spatial measure A: Time	measures and compares duration, using 12- and 14-hour time and am and pm notation	MA3-NSM-02	Non-spatial measure: time (A)	Use 12 & 24 hour time		

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Strand	Substrands	Outcomes	Code	Strand	Substrands	Outcomes	Code	NSW New Syllabus (2023) S3 Year 5	
Statistics and Probability	Data 1	uses appropriate methods to collect data and constructs, interprets and evaluates data displays, including dot plots, line graphs and two-way tables	MA3-18SP	Statistics and Probability	Data A	constructs graphs using many-to-one scales	MA3-DATA-01	Data: displaying numerical data (A)	Collect & display discrete data
						interprets data displays, including timelines and line graphs	MA3-DATA-02	Data: interpretation (A)	Interpret discrete data
	Chance 1	conducts chance experiments and assigns probabilities as values between 0 and 1 to describe their outcomes	MA3-19SP		Chance A	conducts chance experiments and quantifies the probability	MA3-CHAN-01	Chance (A)	List outcomes of probability experiments

Learning sequence	Term one	Term two	Term three	Term four
LS 1	Number and Algebra Big idea: The number system extends infinitely to very large and very small numbers Numbers to 1 billion <ul style="list-style-type: none"> Apply place value to hundred millions Read, represent and order numbers Partition numbers to 1 billion Round to specified place value 	Number and Algebra Big idea: The number system extends infinitely to very large and very small numbers Decimals <ul style="list-style-type: none"> Express decimals as thousandths Use place value to partition decimals Compare and order decimals to 3 places Place decimals on a number line 	Number and Algebra Big idea: The number system extends infinitely to very large and very small numbers Patterns <ul style="list-style-type: none"> Determine products and factors for given whole numbers Determine prime and composite numbers Patterns Algebra 	Number and Algebra Big idea: The number system extends infinitely to very large and very small numbers Number review Review: <ul style="list-style-type: none"> Term 1, Learning Sequence 1 Term 2, Learning Sequence 1 Term 3, Learning Sequence 1
	Number and Algebra Big idea: Addition and subtraction problems can be solved by using a variety of strategies Addition and subtraction <ul style="list-style-type: none"> Apply efficient mental and written strategies Solve multistep problems Use a calculator Round and estimate to check for reasonableness 	Number and Algebra Big idea: Multiplicative thinking involves flexible use of multiplication and division concepts, strategies and representations Mental multiplication and division <ul style="list-style-type: none"> Multiply by 10, 100, 1000 Use mental strategies to multiply and divide: area model, partitioning and factorisation Use the distributive property Model division involving remainders Round and estimate to check for reasonableness 	Measurement and Space Big idea: Understanding relationships between the properties of 2D shapes helps visualise and organise spaces in the world Classifying 2D shapes <ul style="list-style-type: none"> Identify and classify triangles: equilateral, isosceles & scalene Classify triangles and quadrilaterals Identify regular and irregular polygons 	Number and Algebra Measurement and Space Big idea: Fractions represent multiple ideas and can be represented in different ways Fractions, decimals, percentages <ul style="list-style-type: none"> Add and subtract fractions with the same denominator Solve word problems that involve fractions with the same denominator
LS 3	Measurement and Space Big idea: What needs to be measured determines the unit of measurement 12- and 24-hour time <ul style="list-style-type: none"> Read time using 24-hour time notation Convert between 24- and 12-hour time Use am and pm notation Read, interpret and use timetables 	Measurement and Space Statistics and Probability Big idea: Visual representations help to understand aspects of the world (chance and position) Position <ul style="list-style-type: none"> Identify point of intersection on cartesian plane Plot and label points in the first quadrant Identify and record coordinates Link cartesian plane to line graphs 	Number and Algebra Big idea: Multiplicative thinking involves flexible use of multiplication and division concepts, strategies, and representations Linking multiplication with area <ul style="list-style-type: none"> Record area in square kilometres and hectares Find area of triangles Investigate and compare relationships between area and perimeter of rectangles with different dimensions 	Statistics and Probability Big idea: Questions can be asked and answered by collecting and interpreting data Chance <ul style="list-style-type: none"> Use the term probability Recognise outcomes that are equally likely Record outcomes in chance experiments Represent probabilities using fractions
	Number and Algebra Big idea: Fractions represent multiple ideas and can be represented in different ways Fractions <ul style="list-style-type: none"> Compare halves and quarters of different sized wholes Compare and order unit fractions 	Measurement and Space Big idea: What needs to be measured determines the unit of measurement 3D Objects and capacity <ul style="list-style-type: none"> Identify properties of prisms and pyramids Visualise and sketch 3D objects Visualise and sketch nets for 3D objects Use appropriate units to measure capacity Use displacement to investigate volume Interpret decimal notation for capacities 	Number and Algebra Measurement and Space Big idea: What needs to be measured determines the unit of measurement Length and mass <ul style="list-style-type: none"> Measure lengths using km Estimate and measure lengths Calculate perimeters Use appropriate units to measure mass Interpret decimal notation for mass 	Number and Algebra Measurement and Space Big idea: Multiplicative thinking involves flexible use of multiplication and division concepts, strategies and representations Written multiplication and division <ul style="list-style-type: none"> Revise mental strategies for multiplication and division Use algorithms to multiply by a one-digit number Solve word problems involving multiplication and division
LS 5	Statistics and Probability Number and Algebra Big idea: Questions can be asked and answered by collecting and interpreting data Data <ul style="list-style-type: none"> Collect categorical and discrete numerical data Construct graphs using many-to-one scale Create timelines Interpret data displays: tables, column graphs and line graphs 	Measurement and Space Big idea: Angles are the primary structural component of many shapes Angles <ul style="list-style-type: none"> Estimate and describe the size of angles Measure and record angles using degrees Create angles using a protractor Classify angles: right, straight, acute, obtuse, reflex and revolution 	Number and Algebra Big idea: Addition and subtraction problems can be solved by using a variety of strategies Addition and subtraction problems <ul style="list-style-type: none"> Use flexible strategies to solve problems involving addition and subtraction Use addition and subtraction to solve problems involving money and budgeting 	Measurement and Space Big idea: Shapes encountered in daily life can be classified by their attributes 2D shape angle properties <ul style="list-style-type: none"> Review 2D shape properties Compare side and angle properties of triangles and quadrilaterals Investigate symmetry properties of quadrilaterals

Outcomes	Focus	Content	Located
MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers	Represent numbers A	Whole numbers: Recognise, represent and order numbers in the millions	Term 1 LS 1, 2, 5 Term 2 LS 1 Term 3 LS 1, 5 Term 4 LS 1
		Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion	Term 1 LS 1, 2 Term 2 LS 1, 2 Term 3 LS 1, 5 Term 4 LS 1, 4
Decimals and percentages: Recognise that the place value system can be extended beyond hundredths		Term 1 LS 1, 5 Term 2 LS 1, 4 Term 3 LS 4, 5 Term 4 LS 1, 2	
Decimals and percentages: Compare, order and represent decimals		Term 1 LS 1, 5 Term 2 LS 1, 4 Term 3 LS 4, 5 Term 4 LS 1, 2	
MA3-RN-02 compares and orders decimals up to 3 decimal places			
MA3-AR-01 selects and applies appropriate strategies to solve addition and subtraction problems	Additive relations A	Apply efficient mental and written strategies to solve addition and subtraction problems	Term 1 LS 2, 4 Term 3 LS 5 Term 4 LS 1, 2
		Use estimation and place value understanding to determine the reasonableness of solutions	Term 1 LS 2 Term 3 LS 5 Term 4 LS 1
MA3-MR-01 selects and applies appropriate strategies to solve multiplication and division problems	Multiplicative relations A	Determine products and factors	Term 1 LS 1 Term 2 LS 2 Term 3 LS 1, 3 Term 4 LS 4, 5
		Use partitioning and place value to multiply 2-, 3- and 4-digit numbers by one-digit numbers	Term 1 LS 1 Term 2 LS 2 Term 3 LS 3 Term 4 LS 4, 5
		Select and apply mental and written strategies to multiply 2- and 3-digit numbers by 2-digit numbers	Term 2 LS 2 Term 4 LS 4
		Represent and solve division problems with whole number remainders	Term 2 LS 2 Term 4 LS 4
		Select and apply strategies to divide a number with 3 or more digits by a one-digit divisor	Term 2 LS 2 Term 4 LS 4
		Use estimation and rounding to check the reasonableness of answers to calculations	Term 2 LS 2 Term 3 LS 3 Term 4 LS 4, 5
MA3-RQF-01 compares and orders fractions with denominators of 2, 3, 4, 5, 6, 8 and 10	Representing quantity fractions A	Recognise the role of the number 1 as representing the whole	Term 1 LS 4 Term 4 LS 2
		Compare and order common unit fractions	Term 1 LS 4 Term 4 LS 2
		Solve problems involving addition and subtraction of fractions with the same denominator	Term 1 LS 4 Term 2 LS 5 Term 4 LS 2
MA3-GM-01 locates and describes points on a coordinate plane	Geometric measure A	Position: Explore the Cartesian coordinate system	Term 2 LS 3

Outcomes	Focus	Content	Located
MA3-GM-02 selects and uses the appropriate unit and device to measure lengths and distances including perimeters	Geometric measure A	Length: Use metres and kilometres for length and distances	Term 3 LS 4
		Length: Measure lengths to find perimeters	Term 3 LS 3, 4
Angles: Estimate, measure and compare angles using degrees		Term 2 LS 5 Term 4 LS 5	
Angles: Use a protractor to measure and identify types of angles		Term 2 LS 5 Term 4 LS 5	
MA3-GM-03 measures and constructs angles, and identifies the relationships between angles on a straight line and angles at a point			
MA3-2DS-01 investigates and classifies two-dimensional shapes, including triangles and quadrilaterals based on their properties	Two-dimensional spatial structure A	2D shapes: Classify two-dimensional shapes and describe their properties	Term 3 LS 2 Term 4 LS 5
		Area: Use hectares and square kilometres as units of measurement for area	Term 4 LS 5
Area: Calculate the areas of rectangles using familiar metric units		Term 4 LS 5	
MA3-2DS-02 selects and uses the appropriate unit to calculate areas, including areas of rectangles			
MA3-3DS-01 visualises, sketches and constructs three-dimensional objects, including prisms and pyramids, making connections to two-dimensional representations	Three-dimensional spatial structure A	3D objects: Compare, describe and name prisms and pyramids	Term 2 LS 4
		3D objects: Connect three-dimensional objects with two-dimensional representations	Term 2 LS 4
		Volume: Choose appropriate units of measurement for capacity	Term 2 LS 4
Volume: Use displacement to investigate volumes of irregular solids		Term 2 LS 4	
Volume: Connect decimal representations to the metric system		Term 2 LS 4	
MA3-3DS-02 selects and uses the appropriate unit to estimate, measure and calculate volumes and capacities			
MA3-NSM-01 selects and uses the appropriate unit and device to measure the masses of objects	Non-spatial measure A	Mass: Choose appropriate units of measurement for mass	Term 3 LS 4
		Mass: Connect decimal representations to the metric system	Term 3 LS 4
Time: Compare 12- and 24-hour time systems and convert between them		Term 1 LS 3	
MA3-NSM-02 measures and compares duration, using 12- and 24-hour time and am and pm notation			
MA3-DATA-01 constructs graphs using many-to-one scales	Data A	Collect categorical and discrete numerical data by observation or survey	Term 1 LS 5 Term 2 LS 3 Term 4 LS 3
		Choose and use appropriate tables and graphs	Term 1 LS 5 Term 2 LS 3 Term 4 LS 3
MA3-DATA-02 interprets data displays, including timelines and line graphs			
MA3-CHAN-01 conducts chance experiments and quantifies the probability	Chance A	List outcomes of chance experiments involving equally likely outcomes and represent probabilities	Term 4 LS 3

LS & Topic	Outcomes	Focus	Content	New Courses	Activities (courses)	Skill Quests	Challenges	Ebooks
<p>LS 1</p> <p>Big idea The number system extends infinitely to very large and very small numbers</p> <p>Topic Numbers to 1 billion</p>	<p>MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers</p> <p>MA3-RN-02 compares and orders decimals up to 3 decimal places</p> <p>MA3-MR-01 selects and applies appropriate strategies to solve multiplication and division problems</p>	<p>Represent numbers A</p> <p>Multiplicative relations A</p>	<ul style="list-style-type: none"> Whole numbers: Recognise, represent and order numbers in the millions Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion Decimals and percentages: Recognise that the place value system can be extended beyond hundredths Decimals and percentages: Compare, order and represent decimals Determine products and factors Use partitioning and place value to multiply 2-, 3- and 4-digit numbers by one-digit numbers 	<p>Coming soon:</p> <p>Y5 Represents numbers</p> <ul style="list-style-type: none"> Place Value Comparing and ordering whole numbers Rounding Estimation 	<p>Represents numbers: whole number (A)</p> <ul style="list-style-type: none"> Numbers from Words to Digits 2 Numbers from Words to Digits 3 Place Value – Millions Place Value to Millions Place Value to Billions Equal, Less or Greater than? Comparing Numbers 	<p>Represent numbers of any size</p> <ul style="list-style-type: none"> Representing & ordering numbers of any size Rounding numbers to a specified place Partitioning numbers of any size 	<p>Number & Algebra, Whole Number 4-6</p> <ul style="list-style-type: none"> Unknown values in uneven partitioned shapes (DOK 2) 	<p>(Y6-F) Reading and Understanding Whole Numbers</p> <ul style="list-style-type: none"> Read and understand numbers pp 2–5 Round and estimate pp 19–24
<p>LS 2</p> <p>Big idea Addition and subtraction problems can be solved by using a variety of strategies</p> <p>Topic Addition and subtraction</p>	<p>MA3-AR-01 selects and applies appropriate strategies to solve addition and subtraction problems</p> <p>MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers</p>	<p>Additive relations A</p> <p>Represent numbers A</p>	<ul style="list-style-type: none"> Apply efficient mental and written strategies to solve addition and subtraction problems Use estimation and place value understanding to determine the reasonableness of solutions Whole numbers: Recognise, represent and order numbers in the millions Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion 	<p>Coming soon</p>	<p>Additive relations: add sub strategies (A)</p> <ul style="list-style-type: none"> Magic Mental Addition Magic Mental Subtraction Split Add and Subtract Partition Puzzles 1 Partition Puzzles 2 Addition Properties Complements to 10, 20, 50 Jump Add and Subtract Compensation- Add 	<p>Add & subtract numbers of any size</p> <ul style="list-style-type: none"> Adding strategies with numbers of any size Subtracting strategies with numbers of any size <p>Add & subtract to 1 decimal place</p> <ul style="list-style-type: none"> Adding decimals to 1 decimal place (models) Adding decimals to 1 decimal place (no models) Subtracting decimals to 1 decimal place (models) Subtracting to 1 decimal place (no models) Adding & subtracting decimals to 1 decimal place <p>Add & subtract to 2 decimal places</p> <ul style="list-style-type: none"> Adding decimals to 2 decimal places Subtracting decimals to 2 decimal places 	<p>(Y5-E) Addition and Subtraction</p> <ul style="list-style-type: none"> Addition mental strategies pp 1–8 Subtraction mental strategies pp 9–16 Written methods pp 17–22 	

NSW New Syllabus (2023) S3 Year 5

LS & Topic	Outcomes	Focus	Content	New Courses	Activities (courses)	Skill Quests	Challenges	Ebooks
LS 3 Big idea What needs to be measured determines the unit of measurement Topic 12- and 24-hour time	MA3-NSM-02 measures and compares duration, using 12- and 24-hour time and am and pm notation	Non-spatial measure A	<ul style="list-style-type: none"> Time: Compare 12- and 24-hour time systems and convert between them 	Coming soon	Non-spatial measure: time (A) <ul style="list-style-type: none"> 24 Hour Time Using Timetables Time Conversions: Whole Numbers 1 Time Conversions: Whole Numbers 2 Time Conversions: Simple Fractions 	Use 12 & 24 hour time <ul style="list-style-type: none"> Converting between 12 & 24 hour time Using timetables 	Measurement, Time 3-5 <ul style="list-style-type: none"> A lesson in time (DOK 2) Puppy-sitting (DOK 3) Measurement, Time 4-6 <ul style="list-style-type: none"> 24-hour train time (DOK 2) Ordering times (DOK 2) Time to explore 4 (DOK 3) 	(Y5-E) Time <ul style="list-style-type: none"> Measuring time pp 1–8 Calculating time pp 9–14 Timetables pp 15–20
LS 4 Big idea Fractions represent multiple ideas and can be represented in different ways Topic Fractions	MA3-RQF-01 compares and orders fractions with denominators of 2, 3, 4, 5, 6, 8 and 10 MA3-AR-01 selects and applies appropriate strategies to solve addition and subtraction problems	Representing quantity fractions A Additive relations A	<ul style="list-style-type: none"> Recognise the role of the number 1 as representing the whole Compare and order common unit fractions Solve problems involving addition and subtraction of fractions with the same denominator Apply efficient mental and written strategies to solve addition and subtraction problems 	Y5 Representing quantity fractions <ul style="list-style-type: none"> Fractions Equivalence Compare and order fractions Improper fractions and mixed numbers 	Represents quantity fractions (A) <ul style="list-style-type: none"> Compare Fractions 1a Unit Fractions One Take Fraction Common Denominator 	Compare fractions <ul style="list-style-type: none"> Identifying fractions equivalent to 1 whole Comparing & ordering common unit fractions 	Number & Algebra, Fractions 3-5 <ul style="list-style-type: none"> Which is closer to 1? (DOK 2) What fraction is that? (DOK 2) Drinking equivalent fractions (DOK 3) 	(Y5-E) Fractions, Decimals and Percentages <ul style="list-style-type: none"> Fractions pp 1–8 Types of fractions pp 9–16
LS 5 Big idea Questions can be asked and answered by collecting and interpreting data Topic Data	MA3-DATA-01 constructs graphs using many-to-one scales MA3-DATA-02 interprets data displays, including timelines and line graphs MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers MA3-RN-02 compares and orders decimals up to 3 decimal places	Data A Represent numbers A	<ul style="list-style-type: none"> Collect categorical and discrete numerical data by observation or survey Choose and use appropriate tables and graphs Describe and interpret different datasets in context Whole numbers: Recognise, represent and order numbers in the millions Decimals and percentages: Recognise that the place value system can be extended beyond hundredths Decimals and percentages: Compare, order and represent decimals 	Coming soon	Data: displaying numerical data (A) <ul style="list-style-type: none"> Sorting Data Column Graphs Tallies Data: interpretation (A) <ul style="list-style-type: none"> Interpreting Tables Reading from a Column Graph Line Graphs: Interpretation 	Collect & display discrete data <ul style="list-style-type: none"> Collecting discrete data Choosing & using appropriate tables/graphs Interpret discrete data <ul style="list-style-type: none"> Interpreting discrete data using various displays Interpreting line graphs 	Statistics & data 3-5 <ul style="list-style-type: none"> Create a line graph (DOK 3) 	(Y5-E) Data Representation <ul style="list-style-type: none"> Types of graphs 1 pp 1–6 Types of graphs 2 pp 7–11 Types of graphs 3 pp 12–17 Collecting and analysing data pp 18–23 Data investigations pp 24–28

LS & Topic	Outcomes	Focus	Content	New Courses	Activities (courses)	Skill Quests	Challenges	Ebooks
LS 1 Big idea The number system extends infinitely to very large and very small numbers Topic Decimals	MA3-RN-02 compares and orders decimals up to 3 decimal places MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers	Represent numbers A	<ul style="list-style-type: none"> Decimals and percentages: Recognise that the place value system can be extended beyond hundredths Decimals and percentages: Compare, order and represent decimals Whole numbers: Recognise, represent and order numbers in the millions Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion 	Y5 Decimals <ul style="list-style-type: none"> Tenths Hundredths Thousandths Decimals on the number line 	Represents numbers: decimals (A) <ul style="list-style-type: none"> Comparing Decimals 2 Decimal Order Decimal Order 2 Decimals on a Number Line Rounding Decimals 1 	Compare & order decimals <ul style="list-style-type: none"> Recognising decimals up to thousandths Partitioning decimals up to thousandths Comparing & ordering decimals up to thousandths Convert fraction, decimal & percentage <ul style="list-style-type: none"> Converting between decimals & fractions Converting between fractions & percentages Converting between decimals & percentages Converting fractions, decimals & percentages Calculate percentage of an amount <ul style="list-style-type: none"> Calculating a percentage of an amount using 10% Calculating percentage discounts 	Number & Algebra, Patterns 4-6 <ul style="list-style-type: none"> Egyptian patterns (DOK 3) 	(Y5-E) Fractions, decimals and percentages <ul style="list-style-type: none"> Fractions, decimals and percentages pp 20–21 (Y6-F) Fractions, decimals and percentages <ul style="list-style-type: none"> Decimal fractions pp 12–16
LS 2 Big idea Multiplicative thinking involves flexible use of multiplication and division concepts, strategies and representations Topic Mental multiplication and division	MA3-MR-01 selects and applies appropriate strategies to solve multiplication and division problems MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers	Multiplicative relations A Represent numbers A	<ul style="list-style-type: none"> Determine products and factors Use partitioning and place value to multiply 2-, 3- and 4-digit numbers by one-digit numbers Select and apply mental and written strategies to multiply 2- and 3-digit numbers by 2-digit numbers Represent and solve division problems with whole number remainders Select and apply strategies to divide a number with 3 or more digits by a one-digit divisor Use estimation and rounding to check the reasonableness of answers to calculations Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion 	Coming soon	Multiplicative relations (A) <ul style="list-style-type: none"> Fact Families: Multiply and Divide Multiplication Turnarounds Missing Numbers: \times and \div facts Times Tables Solve Equations: Multiply, Divide 1 Bar model $\times \div$ Multiply 3 single-digit numbers Multiply Multiples of 10 Multiply More Multiples of 10 Multiplying Whole Numbers by 10, 100, and 1000 Double and Halve to Multiply Mental Methods Multiplication 1 Multiply 2 Digits Area Model Multiplicative relations: more strategies (A) <ul style="list-style-type: none"> Mental Methods: Division 1 Mental Methods Division 2 Mental Methods Division 3 	Multiply by multiples of 10 <ul style="list-style-type: none"> Multiplying up to 4 digits by 100 & 1000 Multiply using double & halve strategy <ul style="list-style-type: none"> Using doubling & related facts to multiply by 2 Using doubling & related facts to multiply by 4 Using doubling & related facts to multiply by 8 Partitioning & compensating to double & halve Using double & halve to multiply Using double/halve or triple/third Multiply up to 4 digits by 1 digit <ul style="list-style-type: none"> Multiplying using place value Multiplying using factorising Multiplying using the round & compensate strategy Multiplying using the area model Multiply up to 4 digits by 2 digits <ul style="list-style-type: none"> Strategies to multiply by a 2-digit number Division with remainders <ul style="list-style-type: none"> Introducing division with remainders Divide up to 4 digits by 1-digit numbers <ul style="list-style-type: none"> Using known facts to divide by a 1-digit divisor Partitioning to divide by a 1-digit divisor Solving division problems with 1-digit divisors Using estimation/rounding to check answers Using area models to divide by a 1-digit divisor Multiplicative number sentences <ul style="list-style-type: none"> Finding unknown quantities - multiply/divide Introducing order of operations 	Number & Algebra, Multiplication & Division 4-6 <ul style="list-style-type: none"> Number shuffle (DOK 2) The two sides of the pyramid (DOK 2) 	(Y5-E) Multiplication and Division <ul style="list-style-type: none"> Mental multiplication strategies pp 1–10 Mental division strategies pp 11–19

NSW New Syllabus (2023) S3 Year 5

LS & Topic	Outcomes	Focus	Content	New Courses	Activities (courses)	Skill Quests	Challenges	Ebooks
LS 3 Big idea Visual representations help to understand aspects of the world Topic Position	MA3-GM-01 locates and describes points on a coordinate plane MA3-DATA-01 constructs graphs using many-to-one scales MA3-DATA-02 interprets data displays, including timelines and line graphs	Geometric measure A Data A	<ul style="list-style-type: none"> Position: Explore the Cartesian coordinate system Collect categorical and discrete numerical data by observation or survey Choose and use appropriate tables and graphs Describe and interpret different datasets in context 	Coming soon	Geometric measure: coordinate plane (A) <ul style="list-style-type: none"> Coordinate Graphs: 1st Quadrant Ordered Pairs Horizontal and Vertical Change Transformations: Coordinate Plane Data: interpretation (A) <ul style="list-style-type: none"> Line Graphs: Interpretation 	Locate position in the first quadrant <ul style="list-style-type: none"> Using the first quadrant to locate position Plotting coordinates in the first quadrant 		(Y5-E) Position <ul style="list-style-type: none"> Spatial orientation pp 1–6 Coordinates pp 7–12 Directions pp 13–16
LS 4 Big idea What needs to be measured determines the unit of measurement Topic 3D objects and capacity	MA3-3DS-01 visualises, sketches and constructs three-dimensional objects, including prisms and pyramids, making connections to two-dimensional representations MA3-3DS-02 selects and uses the appropriate unit to estimate, measure and calculate volumes and capacities MA3-RN-02 compares and orders decimals up to 3 decimal places	Three-dimensional spatial structure A Represent numbers A	<ul style="list-style-type: none"> 3D objects: Compare, describe and name prisms and pyramids 3D objects: Connect three-dimensional objects with two-dimensional representations Volume: Choose appropriate units of measurement for capacity Volume: Use displacement to investigate volumes of irregular solids Volume: Connect decimal representations to the metric system Decimals and percentages: Recognise that the place value system can be extended beyond hundredths Decimals and percentages: Compare, order and represent decimals 	Coming soon	3D spatial structure: prisms & pyramids (A) <ul style="list-style-type: none"> What Prism Am I? What Pyramid Am I? Prisms and Pyramids 3D spatial structure: volume (A) <ul style="list-style-type: none"> Millilitres and Litres Volume of Solids and Prisms - 1cm³ blocks Volume: Rectangular Prisms 1 	Connect 3D with 2D representations <ul style="list-style-type: none"> Naming prisms & pyramids Connecting prisms with their nets Connecting 3D objects with their nets Use appropriate units for capacity <ul style="list-style-type: none"> Using appropriate units for capacity (L & mL) Investigate volume using blocks <ul style="list-style-type: none"> Investigating volume using blocks 	Geometry, 3D Shape 3-5 <ul style="list-style-type: none"> Nets and prisms (DOK 3) Geometry, 3D Shape 4-6 <ul style="list-style-type: none"> Creating cubes (DOK 2) Notty nets (DOK 2) Looking at faces, edges and vertices (DOK 3) Pyramids and prisms (DOK 3) 	(Y5-E) Volume, Capacity and Mass <ul style="list-style-type: none"> Volume and capacity pp 1–8 (Y6-F) Volume, Capacity and Mass <ul style="list-style-type: none"> Volume and capacity pp 1–2, 5–8 (Y5-E) Geometry <ul style="list-style-type: none"> 3D shapes pp 25–34
LS 5 Big idea Angles are the primary structural component of many shapes Topic Angles	MA3-GM-03 measures and constructs angles, and identifies the relationships between angles on a straight line and angles at a point MA3-RQF-01 compares and orders fractions with denominators of 2, 3, 4, 5, 6, 8 and 10	Geometric measure A Representing quantity fractions A	<ul style="list-style-type: none"> Angles: Estimate, measure and compare angles using degrees Angles: Use a protractor to measure and identify types of angles Solve problems involving addition and subtraction of fractions with the same denominator 	Coming soon	Geometric measure: angle (A) <ul style="list-style-type: none"> Estimating Angles Measuring Angles What Type of Angle? Classifying Angles 	Measure & identify angles <ul style="list-style-type: none"> Estimating, measuring & comparing angles Constructing & classifying angles 	Measurement, Angles 4-6 <ul style="list-style-type: none"> Angle estimation (DOK 3) 	(Y5-E) Geometry <ul style="list-style-type: none"> Lines and angles pp 2–6

NSW New Syllabus (2023) S3 Year 5

LS & Topic	Outcomes	Focus	Content	New Courses	Activities (courses)	Skill Quests	Challenges	Ebooks
<p>LS 1</p> <p>Big idea The number system extends infinitely to very large and very small numbers</p> <p>Topic Patterns</p>	<p>MA3-MR-01 selects and applies appropriate strategies to solve multiplication and division problems</p> <p>MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers</p>	<p>Multiplicative relations A</p> <p>Represent numbers A</p>	<ul style="list-style-type: none"> Determine products and factors Whole numbers: Recognise, represent and order numbers in the millions Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion 	Coming soon	<p>Multiplicative relations (A)</p> <ul style="list-style-type: none"> Lowest Common Multiple Find the Factor Factors Highest Common Factor Prime or Composite? 	<p>Use products, factors & primes</p> <ul style="list-style-type: none"> Determining products & factors Primes & composite numbers 	<p>Number & Algebra, Multiplication & Division 4-6</p> <ul style="list-style-type: none"> Who let the critters out? (DOK 2) Always reasoning about numbers (DOK 3) Peculiar patterns with multiples (DOK 3) Multiple muffins (DOK 3) Supermarket stock dilemma (DOK 3) Factor in our clues (DOK 3) Fear fact-ors (DOK 3) Factor finding (DOK 3) Tricky factors (DOK 3) Clue me in (DOK 3) Peculiar patterns with multiples (DOK 3) 	<p>(Y5-E) Multiplication and Division</p> <ul style="list-style-type: none"> Mental multiplication strategies pp 9-10 <p>(Y6-F) Reading and Understanding Whole Numbers</p> <ul style="list-style-type: none"> Types of numbers pp 11-12 <p>(Y5) Rich Learning Task</p> <ul style="list-style-type: none"> Factors and Multiples <p>(Y5-E) Patterns and Algebra</p> <ul style="list-style-type: none"> Patterns and functions pp 1-17 Algebraic thinking pp 18-25 Solving equations pp 26-33
<p>LS 2</p> <p>Big idea Understanding relationships between the properties of 2D shapes helps visualise and organise spaces in the world</p> <p>Topic Classifying 2D shapes</p>	<p>MA3-2DS-01 investigates and classifies two-dimensional shapes, including triangles and quadrilaterals based on their properties</p>	<p>Two-dimensional spatial structure A</p>	<ul style="list-style-type: none"> 2D shapes: Classify two-dimensional shapes and describe their properties 	Coming soon	<p>2D spatial structure: classify shapes (A)</p> <ul style="list-style-type: none"> Triangle Tasters Sides, Angles and Diagonals Plane Figure Terms Collect the Polygons 	<p>Describe properties of 2D shapes</p> <ul style="list-style-type: none"> Classifying 2D shapes & describe properties 	<p>Geometry, 2D Shape 3-5</p> <ul style="list-style-type: none"> Big shapes made smaller (DOK 2) Shape shifter (DOK 2) Hidden shapes (DOK 3) Comparing shapes (DOK 3) <p>Geometry, 2D Shape 4-6</p> <ul style="list-style-type: none"> Trying triangles (DOK 2) Square split (DOK 3) 	<p>(Y5-E) Geometry</p> <ul style="list-style-type: none"> 2D shapes pp 7-15 <p>(Y5) Rich Learning Task</p> <ul style="list-style-type: none"> What Triangle?

LS & Topic	Outcomes	Focus	Content	New Courses	Activities (courses)	Skill Quests	Challenges	Ebooks
LS 3 Big idea Multiplicative thinking involves flexible use of multiplication and division concepts, strategies and representations Topic Linking multiplication with area	MA3-2DS-02 selects and uses the appropriate unit to calculate areas ... MA3-GM-02 selects and uses the appropriate unit and device to measure lengths ... MA3-MR-01 selects and applies appropriate strategies to solve multiplication ...	Two-dimensional spatial structure A Geometric measure A Multiplicative relations A	<ul style="list-style-type: none"> Area: Calculate the areas of rectangles using familiar metric units Length: Measure lengths to find perimeters Determine products and factors Use partitioning and place value to multiply 2-, 3- and 4-digit numbers by one-digit numbers Use estimation and rounding to check the reasonableness of answers to calculations 	Coming soon	Multiplicative relations (A) <ul style="list-style-type: none"> Multiply 2 Digits Area Model 2D spatial structure: area (A) <ul style="list-style-type: none"> Area: Squares and Rectangles Calculate Areas of Squares and Rectangles Converting Units of Area Area: Parallelograms (Metric) 	Multiply up to 4 digits by 1 digit <ul style="list-style-type: none"> Multiplying using the area model Divide up to 4 digits by 1-digit numbers <ul style="list-style-type: none"> Using area models to divide by a 1-digit divisor Calculate area of rectangles <ul style="list-style-type: none"> Calculating area of rectangles 	Measurement, Area 3-5 <ul style="list-style-type: none"> Make a puppy play area (DOK2) Farmer's fences (DOK3) Measurement, Area 4-6 <ul style="list-style-type: none"> Shade a shape (DOK3) Five and ten, squares and units (DOK3) Finding formulas (DOK3) Ryan's rectangle (DOK3) 	(Y5-E) Length, Area and Perimeter <ul style="list-style-type: none"> Area pp 25–32
LS 4 Big idea What needs to be measured determines the unit of measurement Topic Length and mass	MA3-GM-02 selects and uses the appropriate unit and device to measure lengths and distances ... MA3-NSM-01 selects and uses the appropriate unit and device to measure the masses of objects MA3-RN-02 compares and orders decimals up to 3 decimal places	Geometric measure A Non-spatial measure A Represent numbers A	<ul style="list-style-type: none"> Length: Use metres and kilometres for length and distances Length: Measure lengths to find perimeters Mass: Choose appropriate units of measurement for mass Mass: Connect decimal representations to the metric system Decimals and percentages: Recognise that the place value system can be extended beyond hundredths Decimals and percentages: Compare, order and represent decimals 	Coming soon	Geometric measure: length and perimeter (A) <ul style="list-style-type: none"> Kilometre Conversions Perimeter: Squares and Rectangles Perimeter: Triangles 2 Perimeter Detectives 1 Non-spatial measure: mass (A) <ul style="list-style-type: none"> Kilogram Conversions Grams and Kilograms Converting Units of Mass Mass Word Problems 	Use appropriate measures for length <ul style="list-style-type: none"> Selecting & using appropriate measures for length Comparing & ordering lengths Use appropriate units for mass <ul style="list-style-type: none"> Choosing appropriate units for mass Decimal representations to metric system Calculate perimeter <ul style="list-style-type: none"> Calculating the perimeter of rectangles 	Measurement, Mass 3-5 <ul style="list-style-type: none"> Fruit bowl combo (DOK3) Measurement, Mass 4-6 <ul style="list-style-type: none"> Maze of masses (DOK3) Measurement, Length 3-5 <ul style="list-style-type: none"> Different shape, same perimeter (DOK1) Divide and measure with rods (DOK1) Area and perimeter challenge (DOK3) Perimeter problems (DOK3) 	(Y5-E) Length, Area and Perimeter <ul style="list-style-type: none"> Units of length pp 1–8 Travelling far pp 9–16 Perimeter pp 17–24 (Y5-E) Volume, Capacity and Mass <ul style="list-style-type: none"> Mass pp 9–16
LS 5 Big idea Addition and subtraction problems can be solved using a variety of strategies Topic Addition and subtraction problems	MA3-AR-01 selects and applies appropriate strategies to solve addition and subtraction problems MA3-RN-01 applies an understanding of place value and the role of zero ... MA3-RN-02 compares and orders decimals up to 3 decimal places	Additive relations A Represent numbers A	<ul style="list-style-type: none"> Apply efficient mental and written strategies to solve addition and subtraction problems Use estimation and place value understanding to determine the reasonableness of solutions Whole numbers: Recognise, represent and order numbers in the millions Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion Decimals and percentages: Recognise that the place value system can be extended beyond hundredths Decimals and percentages: Compare, order and represent decimals 	Coming soon	Additive relations: add sub strategies (A) <ul style="list-style-type: none"> Pyramid Puzzles 1 Pyramid Puzzles 2 Estimation: Add and Subtract Estimate Sums Estimate Differences 	Add & subtract numbers of any size <ul style="list-style-type: none"> Selecting efficient strategies to add & subtract Using rounding to estimate Checking the accuracy of answers 	Number & Algebra, Addition & Subtraction 4-6 <ul style="list-style-type: none"> Totally magic grid (DOK2) 	(Y5-E) Addition and Subtraction <ul style="list-style-type: none"> Written methods pp 23–25

LS & Topic	Outcomes	Focus	Content	New Courses	Activities (courses)	Skill Quests	Challenges	Ebooks
LS 1 Big idea The number system extends infinitely to very large and very small numbers Topic Number review	MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers MA3-RN-02 compares and orders decimals up to 3 decimal places MA3-AR-01 selects and applies appropriate strategies to solve addition and subtraction problems	Represent numbers A Additive relations A	<ul style="list-style-type: none"> Whole numbers: Recognise, represent and order numbers in the millions Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion Decimals and percentages: Recognise that the place value system can be extended beyond hundredths Decimals and percentages: Compare, order and represent decimals Apply efficient mental and written strategies to solve addition and subtraction problems Use estimation and place value understanding to determine the reasonableness of solutions 	Coming soon	Refer to: <ul style="list-style-type: none"> Term 1, Learning Sequence 1 Term 2, Learning Sequence 1 Term 3, Learning Sequence 1 		Number & Algebra, Equations & Expressions 4-6 <ul style="list-style-type: none"> Shape equations (DOK 2) 	
LS 2 Big idea Fractions represent multiple ideas and can be represented in different ways Topic Fractions, decimals, percentages	MA3-RQF-01 compares and orders fractions with denominators of 2, 3, 4, 5, 6, 8 and 10 MA3-AR-01 selects and applies appropriate strategies to solve addition and subtraction problems MA3-RN-02 compares and orders decimals up to 3 decimal places	Representing quantity fractions A Additive relations A Represent Numbers A	<ul style="list-style-type: none"> Compare and order common unit fractions Solve problems involving addition and subtraction of fractions with the same denominator Apply efficient mental and written strategies to solve addition and subtraction problems Recognise the role of the number 1 as representing the whole Decimals and percentages: Recognise that the place value system can be extended beyond hundredths Decimals and percentages: Compare, order and represent decimals 	Y5 Representing quantity fractions <ul style="list-style-type: none"> Add fractions Subtract fractions Problem solving with fractions Y5 Decimals <ul style="list-style-type: none"> Order and compare decimals Y5 Percentages <ul style="list-style-type: none"> Percentages Compare percentages Fractions and percentages Decimals, fractions and percentages 	Represents quantity fractions (A) <ul style="list-style-type: none"> Add: Common Denominator Subtract: Common Denominator Add Subtract Fractions 1 	Add/subtract fractions: same denominator <ul style="list-style-type: none"> Adding/subtracting a fraction to a whole number Adding/subtracting fractions: same denominator Adding/subtracting mixed numbers: same denominator 	Number & Algebra, Fractions 4-6 <ul style="list-style-type: none"> Fractional relay races (DOK 2) Fractions in uneven partitioned shapes (DOK 2) Fraction and decimal addition patterns (DOK 2) 	(Y5-E) Fractions, Decimals and Percentages <ul style="list-style-type: none"> Calculating pp 26–29 (Y5) Rich Learning Task <ul style="list-style-type: none"> The Age of Aunt Lil Pattern Blocks 1
LS 3 Big idea Questions can be asked and answered by collecting and interpreting data Topic Chance	MA3-CHAN-01 conducts chance experiments and quantifies the probability MA3-DATA-01 constructs graphs using many-to-one scales MA3-DATA-02 interprets data displays, including timelines and line ...	Chance A Data A	<ul style="list-style-type: none"> List outcomes of chance experiments involving equally likely outcomes and represent probabilities Collect categorical and discrete numerical data by observation or survey Choose and use appropriate tables and graphs Describe and interpret different datasets in context 	Coming soon	Chance (A) <ul style="list-style-type: none"> How many Combinations? Counting Techniques 1 What are the Chances? Introductory probability 	List outcomes of probability experiments Listing outcomes of equally likely experiments	Chance & Probability 3-5 <ul style="list-style-type: none"> Pulling marbles (DOK 3) Chance & Probability 4-6 <ul style="list-style-type: none"> Ordering probabilities (DOK 3) 	(Y5-E) Chance and Probability <ul style="list-style-type: none"> Chance and Probability pp 1–10

LS & Topic	Outcomes	Focus	Content	New Courses	Activities (courses)	Skill Quests	Challenges	Ebooks
<p>LS 4</p> <p>Big idea Multiplicative thinking involves flexible use of multiplication and division concepts, strategies and representations</p> <p>Topic Written multiplication and division</p>	<p>MA3-MR-01 selects and applies appropriate strategies to solve multiplication and division problems</p> <p>MA3-RN-01 applies an understanding of place value and the role of zero to represent the properties of numbers</p>	<p>Multiplicative relations A</p> <p>Represent numbers A</p>	<ul style="list-style-type: none"> Determine products and factors Use partitioning and place value to multiply 2-, 3- and 4-digit numbers by one-digit numbers Select and apply mental and written strategies to multiply 2- and 3-digit numbers by 2-digit numbers Represent and solve division problems with whole number remainders Select and apply strategies to divide a number with 3 or more digits by a one-digit divisor Use estimation and rounding to check the reasonableness of answers to calculations Whole numbers: Apply place value to partition, regroup and rename numbers to 1 billion 	Coming soon	<p>Multiplicative relations: more strategies (A)</p> <ul style="list-style-type: none"> Multiply: 1-Digit Number Multiply: 2-Digit Number, Regroup Long Multiplication Estimation: Multiply and Divide Estimate Products Remainders by Arrays Remainders by Tables Dividing by 10, 100, 1000 Problems: Times and Divide 	<p>Multiply up to 4 digits by 1 digit</p> <ul style="list-style-type: none"> Multiplying using an expanded algorithm Multiplying using a contracted algorithm <p>Divide up to 4 digits by 1-digit numbers</p> <ul style="list-style-type: none"> Extended algorithm to divide 2 digits by 1 digit Extended algorithm to divide 3 digits by 1 digit Extended algorithm to divide 4 digits by 1 digit Contracted algorithm to divide 2 digits by 1 digit Contracted algorithm to divide 3 digits by 1 digit Contracted algorithm to divide 4 digits by 1 digit 	<p>Number & Algebra Multiplication & Division 4-6</p> <ul style="list-style-type: none"> The two sides of the pyramid (OOK 2) 	<p>(Y5-E) Multiplication and Division</p> <ul style="list-style-type: none"> Written methods pp 20–28 Puzzles and investigations pp 29–32
<p>LS 5</p> <p>Big idea Shapes encountered in daily life can be classified by their attributes</p> <p>Topic 2D shape angle properties</p>	<p>MA3-GM-03 measures and constructs angles, and identifies the relationships between angles on a straight line and angles at a point</p> <p>MA3-2DS-01 investigates and classifies two-dimensional shapes, including triangles and quadrilaterals based on their properties</p> <p>MA3-2DS-02 selects and uses the appropriate unit to calculate areas, including areas of rectangles</p> <p>MA3-MR-01 selects and applies appropriate strategies to solve multiplication and division problems</p>	<p>Geometric measure A</p> <p>Two-dimensional spatial structure A</p> <p>Multiplicative relations A</p>	<ul style="list-style-type: none"> Angles: Estimate, measure and compare angles using degrees Angles: Use a protractor to measure and identify types of angles 2D shapes: Classify two-dimensional shapes and describe their properties Area: Use hectares and square kilometres as units of measurement for area Area: Calculate the areas of rectangles using familiar metric units Determine products and factors Use partitioning and place value to multiply 2-, 3- and 4-digit numbers by one-digit numbers Use estimation and rounding to check the reasonableness of answers to calculations 	Coming soon	<p>Refer to:</p> <ul style="list-style-type: none"> Term 2, Learning Sequence 5 Term 3, Learning Sequence 2 		<p>Geometry, 2D Shape 5-7</p> <ul style="list-style-type: none"> Property of: the quadrilateral (OOK 2) Matching diagonals to quadrilaterals (OOK 2) 	<p>(Y5-E) Geometry</p> <ul style="list-style-type: none"> Transformation, tessellation and symmetry pp 16–24