

Foston CE, Langton, Terrington CE VA & Stillington Primary Schools Vocabulary Map

'Love, Learn & Grow Together'



Subject:
Maths

Subject Intent:

- An understanding of the important concepts and an ability to make connections within mathematics.
- A broad range of skills in using and applying mathematics.
- Fluent knowledge and recall of number facts and the number system.
- Fluency in performing written and mental calculations.
- The ability to show initiative in solving problems in a wide range of contexts, reason, generalise and make sense of solutions.
- The ability to think independently, persevere when faced with new challenges and to work with others to succeed.
- To embrace the value of learning from mistakes.
- A wide range of mathematics vocabulary

Topic area	Focus:	Nursey	Reception	Y1	Y2	Y3	Y4	Y5	Y6
Number & Place Value	Objectives:	<ul style="list-style-type: none"> Combine objects like stacking blocks and cups. Put objects inside others and take them out again. Take part in finger rhymes with numbers. React to changes of amount in a group of up to three items. Compare amounts, saying 'lots', 'more' or 'same'. Develop counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence. Count in everyday contexts, sometimes skipping numbers - '1-2-3-5.' Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). Recite numbers past 5. Say one number for each item in order: 1, 2, 3, 4, 5. Know that the last number reached when 	<ul style="list-style-type: none"> Count objects, actions and sounds. Subitise to 5. Link the number symbol (numeral) with its cardinal number value Count beyond ten. Compare numbers. Understand the 'one more than/one less than' relationship between consecutive numbers. Verbally count beyond 20, recognising the pattern of the counting system. Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other Quantity'. <ul style="list-style-type: none"> Find 1, 2 and 3 Subitise 1, 2 and 3 Represent 1, 2 and 3 <ul style="list-style-type: none"> 1 more 1 less Composition of 1, 2 and 3 <ul style="list-style-type: none"> Find 4 and 5 Subitise 4 and 5 Represent 4 and 5 	<ul style="list-style-type: none"> Sort objects Count objects Count objects from a larger group <ul style="list-style-type: none"> Represent objects Recognise numbers as words Count on from any number <ul style="list-style-type: none"> 1 more Count backwards within 10 <ul style="list-style-type: none"> 1 less Compare groups by matching <ul style="list-style-type: none"> Fewer, more, same Less than, greater than, equal to <ul style="list-style-type: none"> Compare numbers Order objects and numbers <ul style="list-style-type: none"> The number line Count within 20 Understand 10 Understand 11, 12 and 13 Understand 14, 15 and 16 Understand 17, 18 and 19 <ul style="list-style-type: none"> Understand 20 1 more and 1 less The number line to 20 Use a number line to 20 Estimate on a number line to 20 Compare numbers to 20 Order numbers to 20 	<ul style="list-style-type: none"> Numbers to 20 Count objects to 100 by making 10s <ul style="list-style-type: none"> Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 Estimate numbers on a number line <ul style="list-style-type: none"> Compare objects Compare numbers Order objects and numbers <ul style="list-style-type: none"> Count in 2s, 5s and 10s Count in 3s 	<ul style="list-style-type: none"> Represent numbers to 100 Partition numbers to 100 Number line to 100 Hundreds Represent numbers to 1,000 Partition numbers to 1,000 Flexible partitioning of numbers to 1,000 Hundreds, tens and ones Find 1, 10 or 100 more or less Number line to 1,000 Estimate on a number line to 1,000 Compare numbers to 1,000 Order numbers to 1,000 Count in 50s 	<ul style="list-style-type: none"> Represent numbers to 1,000 Partition numbers to 1,000 <ul style="list-style-type: none"> Number line to 1,000 Thousands Represent numbers to 10,000 Partition numbers to 10,000 <ul style="list-style-type: none"> Flexible partitioning of numbers to 10,000 Find 1, 10, 100, 1,000 more or less <ul style="list-style-type: none"> Number line to 10,000 Estimate on a number line to 10,000 Compare numbers to 10,000 Order numbers to 10,000 <ul style="list-style-type: none"> Roman numerals Round to the nearest 10 Round to the nearest 100 Round to the nearest 1,000 Round to the nearest 10, 100 or 1,000 	<ul style="list-style-type: none"> Roman numerals to 1,000 <ul style="list-style-type: none"> Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 Read and write numbers to 1,000,000 <ul style="list-style-type: none"> Powers of 10 10/100/1,000/10,000/100,000 more or less Partition numbers to 1,000,000 Number line to 1,000,000 Compare and order numbers to 100,000 Compare and order numbers to 1,000,000 Round to the nearest 10, 100 or 1,000 <ul style="list-style-type: none"> Round within 100,000 Round within 1,000,000 Understand negative numbers <ul style="list-style-type: none"> Count through zero in 1s Count through zero in multiples Compare and order negative numbers <ul style="list-style-type: none"> Find the difference 	<ul style="list-style-type: none"> Numbers to 1,000,000 Numbers to 10,000,000 Read and write numbers to 10,000,000 <ul style="list-style-type: none"> Powers of 10 Number line to 10,000,000 Compare and order any integers <ul style="list-style-type: none"> Round any integer Negative numbers

		<p>counting a small set of objects tells you how many there are in total ('cardinal principle').</p> <ul style="list-style-type: none"> Show 'finger numbers' up to 5. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Experiment with their own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. Compare quantities using language: 'more than', 'fewer than'. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' 	<ul style="list-style-type: none"> • 1 more • 1 less • Composition of 4 and 5 • Composition of 1 – 5 • Introduce zero <ul style="list-style-type: none"> • Find 0 to 5 • Subitise 0 to 5 • Represent 0 to 5 <ul style="list-style-type: none"> • 1 more • 1 less • Composition • Conceptual subitising to 5 <ul style="list-style-type: none"> • Find 6, 7 and 8 • Represent 6, 7 and 8 <ul style="list-style-type: none"> • 1 more • 1 less • Composition of 6, 7 and 8 • Make pairs-odd and even • Double to 8 (find a double) • Double to 8 (make a double) <ul style="list-style-type: none"> • Combine 2 groups • Conceptual subitising Find 9 and 10 • Compare numbers to 10 <ul style="list-style-type: none"> • Represent 9 and 10 • Conceptual subitising to 10 <ul style="list-style-type: none"> • 1 more • 1 less • Composition to 10 • Bonds to 10 (2 parts) • Make arrangements of 10 <ul style="list-style-type: none"> • Bonds to 10 (3 parts) • Doubles to 10 (find a double) • Doubles to 10 (make a double) <ul style="list-style-type: none"> • Explore even and odd Build numbers beyond 10 (10 - 13) • Continue patterns beyond 10 (10-13) • Build numbers beyond 10 (14-20) • Continue patterns beyond 10 (14-20) • Verbal counting beyond 20 • Verbal counting patterns 	<p>Count from 20 to 50</p> <ul style="list-style-type: none"> • 20, 30, 40 and 50 <ul style="list-style-type: none"> • Count by making groups of tens <ul style="list-style-type: none"> • Groups of tens and ones • Partition into tens and ones • The number line to 50 • Estimate on a number line to 50 <ul style="list-style-type: none"> • 1 more, 1 less Count from 50 to 100 <ul style="list-style-type: none"> • Tens to 100 • Partition into tens and ones • The number line to 100 <ul style="list-style-type: none"> • 1 more, 1 less • Compare numbers with the same number of tens • Compare any two numbers 					
Addition & Subtraction	Objectives:		<ul style="list-style-type: none"> ○ Explore the composition of numbers to 10. ○ Automatically recall number bonds for numbers 0–5 and some to 10. ○ Have a deep understanding of number to 10, including the 	<ul style="list-style-type: none"> • Introduce parts and wholes • Part-whole model • Write number sentences • Fact families - addition facts • Number bonds within 10 • Systematic number bonds within 10 • Number bonds to 10 • Addition - add together • Addition - add more 	<ul style="list-style-type: none"> • Bonds to 10 • Fact families - addition and subtraction bonds within 20 <ul style="list-style-type: none"> • Related facts • Bonds to 100 (tens) • Add and subtract 1s • Add by making 10 • Add three 1-digit numbers <ul style="list-style-type: none"> • Add to the next 10 • Add across a 10 • Subtract across 10 	<p>Apply number bonds within 10</p> <p>Add and subtract 1s</p> <p>Add and subtract 10s</p> <p>Add and subtract 100s</p> <p>Spot the pattern</p> <p>Add 1s across a 10</p> <p>Add 10s across a 100</p> <p>Subtract 1s across a 10</p> <p>Subtract 10s across a 100</p> <p>Make connections</p>	<ul style="list-style-type: none"> • Add and subtract 1s, 10s, 100s and 1,000s • Add up to two 4-digit numbers - no exchange • Add two 4-digit numbers - one exchange • Add two 4-digit numbers - more than one exchange • Subtract two 4-digit numbers - no exchange 	<p>Mental strategies</p> <ul style="list-style-type: none"> • Add whole numbers with more than four digits • Subtract whole numbers with more than four digits • Round to check answers • Inverse operations (addition and subtraction) • Multi-step addition and subtraction problems • Compare calculations 	<p>Add and subtract integers</p> <ul style="list-style-type: none"> • Common factors • Common multiples • Rules of divisibility • Primes to 100 • Square and cube numbers • Multiply up to a 4-digit number by a 2-digit number • Solve problems with multiplication • Short division

			<ul style="list-style-type: none"> composition of each number. ○ Subitise (recognise quantities without counting) up to 5. ○ Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. <ul style="list-style-type: none"> • Add more • How many did I add? • Take away • How many did I take away? 	<ul style="list-style-type: none"> • Addition problems <ul style="list-style-type: none"> • Find a part • Subtraction - find a part • Fact families - the eight facts <ul style="list-style-type: none"> • Subtraction - take away/cross out (How many left?) • Subtraction - take away (How many left?) • Subtraction on a number line <ul style="list-style-type: none"> • Add or subtract 1 or 2 • Add by counting on within 20 • Add ones using number bonds • Find and make number bonds to 20 <ul style="list-style-type: none"> • Doubles • Near doubles • Subtract ones using number bonds • Subtraction - counting back • Subtraction - finding the difference <ul style="list-style-type: none"> • Related facts • Missing number problems 	<ul style="list-style-type: none"> • Subtract from a 10 • Subtract a 1-digit number from a 2-digit number (across a 10) <ul style="list-style-type: none"> • 10 more, 10 less • Add and subtract 10s • Add two 2-digit numbers (not across a 10) • Add two 2-digit numbers (across a 10) <ul style="list-style-type: none"> • Subtract two 2-digit numbers (not across a 10) • Subtract two 2-digit numbers (across a 10) • Mixed addition and subtraction • Compare number sentences • Missing number problems 	<ul style="list-style-type: none"> Add two numbers (no exchange) Subtract two numbers (no exchange) Add two numbers (across a 10) Add two numbers (across a 100) Subtract two numbers (across a 10) Subtract two numbers (across a 100) Add 2-digit and 3-digit numbers Subtract a 2-digit number from a 3-digit number Complements to 100 Estimate answers Inverse operations Make decisions 	<ul style="list-style-type: none"> • Subtract two 4-digit numbers - one exchange • Subtract two 4-digit numbers - more than one exchange • Efficient subtraction • Estimate answers • Checking strategies 	<ul style="list-style-type: none"> • Find missing numbers 	<ul style="list-style-type: none"> • Division using factors • Introduction to long division <ul style="list-style-type: none"> • Long division with remainders • Solve problems with division • Solve multi-step problems <ul style="list-style-type: none"> • Order of operations • Mental calculations and estimation • Reason from known facts
Multiplication & Division	Objectives:		<ul style="list-style-type: none"> ○ Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. <ul style="list-style-type: none"> • Explore sharing <ul style="list-style-type: none"> • Sharing • Explore grouping <ul style="list-style-type: none"> • Grouping • Even and odd sharing • Play with and build doubles 	<ul style="list-style-type: none"> • Count in 2s • Count in 10s • Count in 5s • Recognise equal groups <ul style="list-style-type: none"> • Add equal groups <ul style="list-style-type: none"> • Make arrays • Make doubles • Make equal groups - grouping • Make equal groups - sharing 	<ul style="list-style-type: none"> • Recognise equal groups • Make equal groups • Add equal groups <ul style="list-style-type: none"> • Introduce the multiplication symbol • Multiplication sentences <ul style="list-style-type: none"> • Use arrays • Make equal groups – grouping • Make equal groups – sharing <ul style="list-style-type: none"> • The 2 times-table <ul style="list-style-type: none"> • Divide by 2 • Doubling and halving • Odd and even numbers <ul style="list-style-type: none"> • The 10 times-table <ul style="list-style-type: none"> • Divide by 10 • The 5 times-table <ul style="list-style-type: none"> • Divide by 5 • The 5 and 10 times-tables 	<ul style="list-style-type: none"> • Multiplication - equal groups <ul style="list-style-type: none"> • Use arrays • Multiples of 2 • Multiples of 5 and 10 • Sharing and grouping <ul style="list-style-type: none"> • Multiply by 3 • Divide by 3 • The 3 times-table <ul style="list-style-type: none"> • Multiply by 4 • Divide by 4 • The 4 times-table <ul style="list-style-type: none"> • Multiply by 8 • Divide by 8 • The 8 times-table • The 2, 4 and 8 times-tables <ul style="list-style-type: none"> • Multiples of 10 • Related calculations • Reasoning about multiplication • Multiply a 2-digit number by a 1-digit number - 	<ul style="list-style-type: none"> • Multiples of 3 • Multiply and divide by 6 • 6 times-table and division facts <ul style="list-style-type: none"> • Multiply and divide by 9 • 9 times-table and division facts <ul style="list-style-type: none"> • The 3, 6 and 9 times-tables • Multiply and divide by 7 • 7 times-table and division facts <ul style="list-style-type: none"> • 11 times-table and division facts • 12 times-table and division facts • Multiply by 1 and 0 • Divide a number by 1 and itself <ul style="list-style-type: none"> • Multiply three numbers <ul style="list-style-type: none"> • Factor pairs • Use factor pairs • Multiply by 10 	<ul style="list-style-type: none"> Multiples <ul style="list-style-type: none"> • Common multiples <ul style="list-style-type: none"> • Factors • Common factors • Prime numbers • Square numbers <ul style="list-style-type: none"> • Cube numbers • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiples of 10, 100 and 1,000 • Multiply up to a 4-digit number by a 1-digit number • Multiply a 2-digit number by a 2-digit number (area model) • Multiply a 2-digit number by a 2-digit number • Multiply a 3-digit number by a 2-digit number • Multiply a 4-digit number by a 2-digit number 	

						<ul style="list-style-type: none"> no exchange • Multiply a 2-digit number by a 1-digit number - with exchange • Link multiplication and division • Divide a 2-digit number by a 1-digit number - no exchange • Divide a 2-digit number by a 1-digit number - flexible partitioning • Divide a 2-digit number by a 1-digit number - with remainders <ul style="list-style-type: none"> • Scaling • How many ways? 	<ul style="list-style-type: none"> • Multiply by 100 • Divide by 10 • Divide by 100 • Related facts – multiplication and division • Informal written methods for multiplication • Multiply a 2-digit number by a 1-digit number • Multiply a 3-digit number by a 1-digit number • Divide a 2-digit number by a 1-digit number (1) • Divide a 2-digit number by a 1-digit number (2) • Divide a 3-digit number by a 1-digit number • Correspondence problems • Efficient multiplication 	<ul style="list-style-type: none"> • Solve problems with multiplication • Short division • Divide a 4-digit number by a 1-digit number • Divide with remainders • Efficient division • Solve problems with multiplication and division 	
Measure	Objectives:	<ul style="list-style-type: none"> • Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'. • Make comparisons between objects relating to size, length, weight and capacity. 	<p>Compare length, weight and capacity. Match, sort & compare:</p> <ul style="list-style-type: none"> • Match objects • Match pictures and objects <ul style="list-style-type: none"> • Identify a set • Sort objects to a type • Explore sorting techniques <ul style="list-style-type: none"> • Create sorting rules • Compare amounts <p>Patterns:</p> <ul style="list-style-type: none"> • Compare size • Compare mass • Compare capacity • Explore simple patterns • Copy and continue simple patterns • Create simple patterns <p>Length & Height</p> <ul style="list-style-type: none"> • Explore length • Compare length • Explore height • Compare height • Talk about time • Order and sequence 	<p>Length & Height:</p> <ul style="list-style-type: none"> • Compare lengths and heights • Measure length using objects • Measure length in centimetres <p>Money:</p> <ul style="list-style-type: none"> • Unitising • Recognise coins • Recognise notes • Count in coins • Before and after • Days of the week • Months of the year • Hours, minutes and seconds • Tell the time to the hour • Tell the time to the half hour <p>Mass & Volume:</p> <ul style="list-style-type: none"> • Heavier and lighter • Measure mass • Compare mass • Full and empty • Compare volume • Measure capacity • Compare capacity 	<p>Length & Height:</p> <ul style="list-style-type: none"> • Measure in centimetres • Measure in metres <p>• Compare lengths and heights</p> <ul style="list-style-type: none"> • Order lengths and heights • Four operations with lengths and heights <p>Money:</p> <ul style="list-style-type: none"> • Count money - pence • Count money - pounds (notes and coins) • Count money - pounds and pence • Choose notes and coins • Make the same amount • Compare amounts of money <ul style="list-style-type: none"> • Calculate with money <ul style="list-style-type: none"> • Make a pound • Find change • Two-step problems <p>Mass, Capacity & temperature:</p> <ul style="list-style-type: none"> • Compare mass • Measure in grams • Measure in kilograms • Four operations with mass and capacity <ul style="list-style-type: none"> • Measure in millilitres • Measure in litres • Four operations with volume and capacity <ul style="list-style-type: none"> • Temperature <p>Time:</p> <ul style="list-style-type: none"> • O'clock and half past • Quarter past and quarter to • Tell time past the hour • Tell time to the hour 	<p>Length & perimeter:</p> <ul style="list-style-type: none"> • Measure in metres and centimetres • Measure in millimetres • Measure in centimetres and millimetres • Metres, centimetres and millimetres • Equivalent lengths (metres and centimetres) <ul style="list-style-type: none"> • Equivalent lengths (centimetres and millimetres) • Compare lengths <ul style="list-style-type: none"> • Add lengths • Subtract lengths • What is perimeter? • Measure perimeter • Calculate perimeter <p>Mass & Capacity:</p> <ul style="list-style-type: none"> • Use scales • Measure mass in grams • Measure mass in kilograms and grams • Equivalent masses (kilograms and grams) <ul style="list-style-type: none"> • Compare mass • Add and subtract mass • Measure capacity and volume in millilitres • Measure capacity and volume in litres and millilitres <ul style="list-style-type: none"> • Equivalent capacities and volumes (litres and millilitres) • Compare capacity and volume 	<p>Area:</p> <ul style="list-style-type: none"> • What is area? • Count squares • Make shapes • Compare areas <p>Length & perimeter:</p> <ul style="list-style-type: none"> • Measure in kilometres and metres • Equivalent lengths (kilometres and metres) <ul style="list-style-type: none"> • Perimeter on a grid • Perimeter of a rectangle • Perimeter of rectilinear shapes <ul style="list-style-type: none"> • Find missing lengths in rectilinear shapes • Calculate the perimeter of rectilinear shapes • Perimeter of regular polygons <ul style="list-style-type: none"> • Perimeter of polygons <p>Money:</p> <ul style="list-style-type: none"> • Write money using decimals • Convert between pounds and pence • Compare amounts of money <ul style="list-style-type: none"> • Estimate with money • Calculate with money • Solve problems with money <p>Time:</p> <ul style="list-style-type: none"> • Years, months, weeks and days • Hours, minutes and seconds • Convert between analogue and digital times • Convert to the 24 hour clock • Convert from the 24 hour clock 	<p>Perimeter & Area:</p> <ul style="list-style-type: none"> • Perimeter of rectangles • Perimeter of rectilinear shapes • Perimeter of polygons • Area of rectangles • Area of compound shapes <ul style="list-style-type: none"> • Estimate area • Converting units: Kilograms and kilometres • Convert units of length • Convert between metric and imperial units • Convert units of time • Calculate with timetables <p>Volume:</p> <ul style="list-style-type: none"> • Cubic centimetres • Compare volume • Estimate volume • Estimate capacity 	<p>Converting units:</p> <ul style="list-style-type: none"> • Metric measures • Convert metric measures • Calculate with metric measures • Miles and kilometres • Imperial measures • Area, perimeter and Volume: <ul style="list-style-type: none"> • Shapes - same area • Area and perimeter • Area of a right-angled triangle • Area of any triangle • Area of a parallelogram • Volume - counting cubes • Volume of a cuboid

					<ul style="list-style-type: none"> Tell the time to 5 minutes Minutes in an hour Hours in a day 	<ul style="list-style-type: none"> Add and subtract capacity and volume Money: <ul style="list-style-type: none"> Pounds and pence Convert pounds and pence Add money Subtract money Find change Time: <ul style="list-style-type: none"> Roman numerals to 12 Tell the time to 5 minutes Tell the time to the minute Read time on a digital clock <ul style="list-style-type: none"> Use a.m. and p.m. Years, months and days <ul style="list-style-type: none"> Days and hours Hours and minutes - use start and end times Hours and minutes - use durations Minutes and seconds 			
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Geometry	Objectives:	<p>Shape:</p> <ul style="list-style-type: none"> Climb and squeezing selves into different types of spaces. Build with a range of resources. <ul style="list-style-type: none"> Complete inset puzzles. Notice patterns and arrange things in patterns. Talk about and explore 2D and 3D shapes (for 	<ul style="list-style-type: none"> Select, rotate and manipulate shapes in order to develop spatial reasoning skills. Compose and decompose shapes so that children recognise a shape can have other shapes 	<p>Shape:</p> <ul style="list-style-type: none"> Recognise and name 3-D shapes <ul style="list-style-type: none"> Sort 3-D shapes Recognise and name 2-D shapes <ul style="list-style-type: none"> Sort 2-D shapes Patterns with 2-D and 3-D shapes <p>Position & Direction:</p> <ul style="list-style-type: none"> Describe turns 	<p>Shape:</p> <ul style="list-style-type: none"> Recognise 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes <ul style="list-style-type: none"> Draw 2-D shapes Lines of symmetry on shapes <ul style="list-style-type: none"> Use lines of symmetry to complete shapes Sort 2-D shapes Count faces on 3-D shapes Count edges on 3-D shapes Count vertices on 3-D shapes 	<p>Shape:</p> <ul style="list-style-type: none"> Turns and angles <ul style="list-style-type: none"> Right angles Compare angles Measure and draw accurately <ul style="list-style-type: none"> Horizontal and vertical Parallel and perpendicular Recognise and describe 2-D shapes <ul style="list-style-type: none"> Draw polygons 	<p>Shape:</p> <ul style="list-style-type: none"> Understand angles as turns <ul style="list-style-type: none"> Identify angles Compare and order angles <ul style="list-style-type: none"> Triangles Quadrilaterals Polygons Lines of symmetry Complete a symmetric figure <p>Position & Direction:</p>	<p>Shape:</p> <ul style="list-style-type: none"> Understand and use degrees <ul style="list-style-type: none"> Classify angles Estimate angles Measure angles up to 180 Draw lines and angles accurately Calculate angles around a point Calculate angles on a straight line Lengths and angles in shapes <ul style="list-style-type: none"> Regular and irregular polygons 3-D shapes 	<p>Shape:</p> <ul style="list-style-type: none"> Measure and classify angles <ul style="list-style-type: none"> Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle – special cases Angles in a triangle – missing angles Angles in quadrilaterals Angles in polygons Circles
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		<p>example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'.</p> <ul style="list-style-type: none"> ○ Understand position through words alone – for example, "The bag is under the table," – with no pointing. ○ Describe a familiar route. ○ Discuss routes and locations, using words like 'in front of' and 'behind'. ○ Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc. ○ Combine shapes to make new ones – an arch, a bigger triangle etc. ○ Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc. ○ Extend and create ABAB patterns – stick, leaf, stick, leaf. ○ Notice and correct an error in a repeating pattern. 	<p>within it, just as numbers can.</p> <ul style="list-style-type: none"> • Continue, copy and create repeating patterns. <p>Shape:</p> <ul style="list-style-type: none"> • Identify and name shapes with 4 sides • Combine shapes with 4 sides • Shapes in the environment <ul style="list-style-type: none"> • My day and nigh • Identify and name circles and triangles • Compare circles and triangles • Shapes in the environment <ul style="list-style-type: none"> • Describe position • Recognise and name 3-D shapes • Find 2-D shapes within 3-D shapes • Use 3-D shapes for tasks • 3-D shapes in the environment <ul style="list-style-type: none"> • Identify more complex patterns • Copy and continue patterns • Patterns in the environment <p>Composition</p> <ul style="list-style-type: none"> • Select shapes for a purpose <ul style="list-style-type: none"> • Rotate shapes • Manipulate shapes • Explain shape arrangements <ul style="list-style-type: none"> • Compose shapes • Decompose shapes • Copy 2-D shape pictures • Find 2-D shapes within 3-D shapes <p>Mass & Capacity:</p> <ul style="list-style-type: none"> • Compare mass • Find a balance • Explore capacity • Compare capacity <p>Visualise, build and map</p> <p>Identify units of repeating patterns</p> <ul style="list-style-type: none"> • Create own pattern rules • Explore own pattern rules <ul style="list-style-type: none"> • Replicate and build scenes and constructions <ul style="list-style-type: none"> • Visualise from different positions • Describe positions • Give instructions to build <ul style="list-style-type: none"> • Explore mapping <ul style="list-style-type: none"> • Represent maps with models 	<ul style="list-style-type: none"> • Describe position - left and right • Describe position - forwards and backwards • Describe position - above and below • Ordinal numbers 	<ul style="list-style-type: none"> • Sort 3-D shapes • Make patterns with 2-D and 3-D shapes <p>Position & Direction:</p> <ul style="list-style-type: none"> • Language of position • Describe movement <ul style="list-style-type: none"> • Describe turns • Describe movement and turns • Shape patterns with turns 	<ul style="list-style-type: none"> • Recognise and describe 3-D shapes • Make 3-D shapes 	<ul style="list-style-type: none"> • Describe position using coordinates <ul style="list-style-type: none"> • Plot coordinates • Draw 2-D shapes on a grid <ul style="list-style-type: none"> • Translate on a grid • Describe translation on a grid 	<p>Position & Direction:</p> <ul style="list-style-type: none"> • Read and plot coordinates • Problem solving with coordinates <ul style="list-style-type: none"> • Translation • Translation with coordinates <ul style="list-style-type: none"> • Lines of symmetry • Reflection in horizontal and vertical lines 	<ul style="list-style-type: none"> • Draw shapes accurately • Nets of 3-D shapes <p>Position & Direction:</p> <ul style="list-style-type: none"> • The first quadrant • Read and plot points in four quadrants • Solve problems with coordinates <ul style="list-style-type: none"> • Translations • Reflections
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		<ul style="list-style-type: none"> • Create own maps from familiar places • Create own maps and plans from story Situations <p>Make Connections:</p> <ul style="list-style-type: none"> • Deepen understanding • Patterns and relationships 						
Fractio ns	Objective s:	N/A	<ul style="list-style-type: none"> • Recognise a half of an object or a shape • Find a half of an object or a shape <ul style="list-style-type: none"> • Recognise a half of a quantity • Find a half of a quantity • Recognise a quarter of an object or a shape • Find a quarter of an object or a shape • Recognise a quarter of a quantity • Find a quarter of a quantity 	<ul style="list-style-type: none"> • Introduction to parts and whole • Equal and unequal parts <ul style="list-style-type: none"> • Recognise a half • Find a half • Recognise a quarter • Find a quarter • Recognise a third • Find a third • Find the whole • Unit fractions • Non-unit fractions • Recognise the equivalence of a half and two quarters <ul style="list-style-type: none"> • Recognise three-quarters • Find three-quarters • Count in fractions up to a whole 	<ul style="list-style-type: none"> • Understand the denominators of unit fractions • Compare and order unit fractions • Understand the numerators of non-unit fractions • Understand the whole • Compare and order non-unit fractions • Fractions and scales • Fractions on a number line • Count in fractions on a number line • Equivalent fractions on a number line • Equivalent fractions as bar models <ul style="list-style-type: none"> • Add fractions • Subtract fractions • Partition the whole • Unit fractions of a set of objects • Non-unit fractions of a set of objects • Reasoning with fractions of an amount 	<ul style="list-style-type: none"> • Measure in kilometres and metres <ul style="list-style-type: none"> • Equivalent lengths (kilometres and metres) • Perimeter on a grid • Perimeter of a rectangle • Perimeter of rectilinear shapes • Find missing lengths in rectilinear shapes • Calculate the perimeter of rectilinear shapes • Perimeter of regular polygons • Perimeter of polygons 	<ul style="list-style-type: none"> • Find fractions equivalent to a unit fraction • Find fractions equivalent to a non-unit fraction <ul style="list-style-type: none"> • Recognise equivalent fractions • Convert improper fractions to mixed numbers • Convert mixed numbers to improper fractions • Compare fractions less than 1 • Order fractions less than 1 • Compare and order fractions greater than 1 • Add and subtract fractions with the same denominator <ul style="list-style-type: none"> • Add fractions within 1 • Multiply a unit fraction by an integer • Multiply a non-unit fraction by an integer • Multiply a mixed number by an integer <ul style="list-style-type: none"> • Calculate a fraction of a quantity • Fraction of an amount <ul style="list-style-type: none"> • Find the whole • Use fractions as operators 	<ul style="list-style-type: none"> • Equivalent fractions and simplifying • Equivalent fractions on a number line <ul style="list-style-type: none"> • Compare and order (denominator) • Compare and order (numerator) • Add and subtract simple fractions • Add and subtract any two fractions <ul style="list-style-type: none"> • Add mixed numbers • Subtract mixed numbers • Multi-step problems • Multiply fractions by integers • Multiply fractions by fractions • Divide a fraction by an integer • Divide any fraction by an integer • Mixed questions with fractions • Fraction of an amount • Fraction of an amount - find the whol
Ratio	Objective s:	N/A						<ul style="list-style-type: none"> • Add or multiply? • Use ratio language • Introduction to the ratio symbol • Ratio and fractions <ul style="list-style-type: none"> • Scale drawing • Use scale factors • Similar shapes • Ratio problems

					<ul style="list-style-type: none"> • Proportion problems • Recipe
Decimals	Objectives:	N/A	<ul style="list-style-type: none"> • Tenths as fractions • Tenths as decimals • Tenths on a place value chart • Tenths on a number line • Divide a 1-digit number by 10 • Divide a 2-digit number by 10 • Hundredths as fractions • Hundredths as decimals • Hundredths on a place value chart • Divide a 1- or 2-digit number by 100 • Make a whole with tenths <ul style="list-style-type: none"> • Make a whole with hundredths • Partition decimals • Flexibly partition decimals <ul style="list-style-type: none"> • Compare decimals • Order decimals • Round to the nearest whole number • Halves and quarters as decimals 	<ul style="list-style-type: none"> • Use known facts to add and subtract decimals within 1 <ul style="list-style-type: none"> • Complements to 1 • Add and subtract decimals across 1 • Add decimals with the same number of decimal places • Subtract decimals with the same number of decimal places • Add decimals with different numbers of decimal places <ul style="list-style-type: none"> • Subtract decimals with different numbers of decimal places • Efficient strategies for adding and subtracting decimals <ul style="list-style-type: none"> • Decimal sequences • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply and divide decimals - missing values 	<ul style="list-style-type: none"> • Place value within 1 • Place value – integers and decimals <ul style="list-style-type: none"> • Round decimals • Add and subtract decimals • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply decimals by integers • Divide decimals by integers • Multiply and divide decimals in context
Fractions, Decimals & Percentages	Objectives:	N/A		<p>Decimals & Percentages:</p> <ul style="list-style-type: none"> • Decimals up to 2 decimal places • Equivalent fractions and decimals (tenths) • Equivalent fractions and decimals (hundredths) • Equivalent fractions and decimals • Thousandths as fractions • Thousandths as decimals • Thousandths on a place value chart • Order and compare decimals (same number of decimal places) • Order and compare any decimals with up to 3 decimal places 	<p>Decimal and fraction equivalents</p> <ul style="list-style-type: none"> • Fractions as division • Understand percentages • Fractions to percentages <ul style="list-style-type: none"> • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Percentage of an amount – one step • Percentage of an amount – multi-step • Percentages – missing value

							<ul style="list-style-type: none"> • Round to the nearest whole number • Round to 1 decimal place • Understand percentages • Percentages as fractions • Percentages as decimals <ul style="list-style-type: none"> • Equivalent fractions, decimals and percentages 	
Data & Statistics	Objectives:			<ul style="list-style-type: none"> • Make tally charts <ul style="list-style-type: none"> • Tables • Block diagrams • Draw pictograms (1-1) • Interpret pictograms (1-1) • Draw pictograms (2, 5 and 10) • Interpret pictograms (2, 5 and 10) 	<ul style="list-style-type: none"> • Interpret pictograms • Draw pictograms • Interpret bar charts <ul style="list-style-type: none"> • Draw bar charts • Collect and represent data <ul style="list-style-type: none"> • Two-way tables 	<ul style="list-style-type: none"> • Interpret charts • Comparison, sum and difference • Interpret line graphs • Draw line graphs 	<ul style="list-style-type: none"> • Draw line graphs • Read and interpret line graphs • Read and interpret tables <ul style="list-style-type: none"> • Two-way tables • Read and interpret timetables 	<ul style="list-style-type: none"> • Line graphs • Dual bar charts • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • The mean
Algebra	Objectives	N/A					<ul style="list-style-type: none"> • 1-step function machines • 2-step function machines <ul style="list-style-type: none"> • Form expressions • Substitution • Formulae • Form equations • Solve 1-step equations • Solve 2-step equations <ul style="list-style-type: none"> • Find pairs of values • Solve problems with two unknowns 	