

St Wilfrid's Catholic Primary School



Maths Overview

Reception

Autumn	<p>Match and sort.</p> <ul style="list-style-type: none"> • Match, objects • Match pictures and objects • Identify a set. • Sort objects to a type • Explore sorting techniques. • Create sorting rules. • Compare amounts. 	<p>Talk about measure and 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>It's me 1, 2, 3.</p> <ul style="list-style-type: none"> • Find 1, 2 and 3. • Subitise 1, 2 and 3. • Represent 1, 2 and 3. • 1 more. • 1 less. • Composition of 1, 2 and 3. 	<p>Circles and triangles.</p> <ul style="list-style-type: none"> • Identify and name circles and triangles. • Compare circles and triangles. • Shapes in the environment. • Describe a position. 	<p>1, 2, 3, 4, 5.</p> <ul style="list-style-type: none"> • Find 4 and 5. • Subitise 4 and 5. • Represent 4 and 5. • 1 more. • 1 less. • Composition of 4 and 5. • Composition of 1 - 5. 	<p>Shapes with 4 sides.</p> <ul style="list-style-type: none"> • Identify and name shapes with 4 sides. • Combine shapes with 4 sides. • Shapes in the environment. • My day and night.
Spring	<p>Alive in 5</p> <ul style="list-style-type: none"> • Introduce 0 • Find 0 to 5 • Subitise 0 to 5 • Represent 0 to 5 • 1 more • 1 less 	<p>Mass and capacity</p> <ul style="list-style-type: none"> • Compare mass • Find a balance • Explore capacity 	<p>Grow 6, 7 and 8</p> <ul style="list-style-type: none"> • Find 6, 7 and 8 • Represent 6, 7 and 8 • 1 more • 1 less • Composition of 6, 7 and 8 	<p>Length, height and time</p> <ul style="list-style-type: none"> • Explore length • Compare length • Explore height 	<p>Building 9 and 10</p> <ul style="list-style-type: none"> • Find 9 and 10 • Compare numbers to 10 • Represent 9 and 10 	<p>Explore 3D shapes</p> <ul style="list-style-type: none"> • Recognise and name 3D shapes • Find 2D shapes within 3D shapes • Use 3D shapes for tasks

	<ul style="list-style-type: none"> • Composition • Conceptual subitising to 5 	<ul style="list-style-type: none"> • Compare capacity 	<ul style="list-style-type: none"> • Make pairs - odd and even • Double to 8 (find double) • Double to 8 (make 8) • Combine 2 groups • Conceptual subitising 	<ul style="list-style-type: none"> • Compare height • Talk about time • Order and sequence time 	<ul style="list-style-type: none"> • Conceptual subitising to 10 • 1 more • 1 less • Composition to 10 • Bonds to 10 (part 2) • Make arrangements of 10 • Bonds of 10 (part 3) • Doubles to 10 (find doubles) • Doubles to 10 (make a double) • Explore even and odd 	<ul style="list-style-type: none"> • 3D shapes of the environment • Identify more complex patterns • Copy and continue patterns • Patterns in the environment
Summer	Top 20 and beyond <ul style="list-style-type: none"> • Build numbers beyond 10 (10 - 13) • Continue patterns beyond 10 (10-13) • Build numbers 	How many more? <ul style="list-style-type: none"> • Add more • How many did I add? • Take away • How many did 	Manipulate, compose and decompose. <ul style="list-style-type: none"> • Select shapes for a purpose • Rotate shapes • Manipulate shapes • Explain shape arrangements 	Sharping and grouping. <ul style="list-style-type: none"> • Explore sharing • Sharing • Explore grouping • Grouping • Even and odd sharing 	Visualise, build and map. <ul style="list-style-type: none"> • Identify units of repeating patterns • Create own patterns rules • Explore own pattern rules • Replicate and build scenes 	Make connections. <ul style="list-style-type: none"> • Deepening understanding • Patterns and relationships

	beyond 10 (14 - 20) <ul style="list-style-type: none"> • Continue patterns beyond 10 (14 - 20) • Verbal counting beyond 20. • Verbal counting patterns. 	I take away?	<ul style="list-style-type: none"> • Compose shapes • Decompose shapes • Copy 2D shape pictures • Find 2D shapes within 3D shapes 	<ul style="list-style-type: none"> • Play with and build doubles 	and constructions <ul style="list-style-type: none"> • Visualise from different positions • Describe positions • Give instructions to build • Explore mapping • Represent maps with models • Create own maps from familiar situation • 	
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Year 1

Year 1				
Autumn	Place Value (within 10) <ul style="list-style-type: none"> Sort objects Count objects Count objects from a larger group Represent objects Recognise numbers as words Count on from nay number 1 more Count backwards within 10 1 less Compare groups by matching Fewer, more, same Less than, greater than, equal to Compare numbers Order objects and numbers 	Addition and Subtraction (within 10) <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 Addition problems Find a part Fact families - the eight facts Subtraction - take away/cross out (How many left?) Subtraction - take away (How many left?) Subtraction on a number line Add or subtract 1 or 2 	Shape <ul style="list-style-type: none"> Recognise and name 3-D shapes Sort 3-D shapes Recognise and name 2-D shapes Sort 2-D shapes Patterns with 2-D and 3-D shapes 	Consolidation
	The number line			

Spring	Place Value (within 20) <ul style="list-style-type: none"> Count within 20 Understand 10 Understand 11, 12 and 13 Understand 14, 15 and 16 Understand 17, 18 and 19 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 	Addition and subtraction (within 20) <ul style="list-style-type: none"> Add by counting on within 20 Add ones using number bonds Find and make number bonds to 20 Doubles Near doubles Subtract ones using number bonds Subtraction - counting back Subtraction - finding the difference Related facts Missing number problems 	Place Value (within 50) <ul style="list-style-type: none"> Count from 20 to 50 20, 30, 40 and 50 Count by making groups of tens Groups of tens and ones Partition into tens and ones The number line to 50 Estimate on a number line to 50 1 more, 1 less 	Measurement (length and height) <ul style="list-style-type: none"> Compare lengths and heights Measure length using objects Measure length in centimetres 	Measurement (mass and volume) <ul style="list-style-type: none"> Heavier and lighter Measure mass Compare mass Full and empty Compare volume Measure capacity 	
Summer	Multiplication and division <ul style="list-style-type: none"> Count in 2s Count in 10s Count in 5s 	Fractions <ul style="list-style-type: none"> Recognise a half of an object or a shape 	Position and direction <ul style="list-style-type: none"> Describe turns 	Place Value (within 100) <ul style="list-style-type: none"> Count from 50 to 100 Tens to 100 	Money <ul style="list-style-type: none"> Unitising Recognise coins 	Time <ul style="list-style-type: none"> Before and after Days of the week

	<ul style="list-style-type: none"> • Recognise equal groups • Add equal groups • Make arrays • Make doubles • Make equal groups - grouping • Make equal groups - sharing 	<ul style="list-style-type: none"> • Find a half of an object or a shape • 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"> • Describe position - left and right • Describe position - forwards and backwards • Describe position - above and below • Ordinal numbers 	<ul style="list-style-type: none"> • Partition into tens and ones • The number line to 100 • 1 more, 1 less • Compare numbers with the same number of tens • Compare any two numbers 	<ul style="list-style-type: none"> • Recognise notes • Count in coins 	<ul style="list-style-type: none"> • Months of the year • Hours, minutes and seconds • Tell the time to the hour • Tell the time to the half hour
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Year 2

Autumn	Place value		Addition and subtraction:		Shape
	<ul style="list-style-type: none"> • Count numbers to 20. • Count objects to 100 by making 10. • Recognise 10s 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. • Compare objects. • Compare numbers. • Order objects and numbers. • Count in 2s, 5s and 10s. • Count in 3s 		<ul style="list-style-type: none"> • Bonds to 10. • Fact families - addition and subtraction to bonds within 20. • Related facts. • Bonds to 100 (tens). • Add and subtract 1s. • Add by making 10. • Add three 1-digit numbers. • Add to the next 10. • Add across a 10. • Subtract across 10. • Subtract from a 10. • Subtract a 1-digit number from a 2-digit number. • 10 more, 10 less. • Add and subtract 10s. • Add two 2-digit numbers (not across 10) • Add two 2-digit numbers (across 10) • Subtract two 2-digit numbers (not across 10) • Subtract two 2-digit numbers (across 10) • Mixed addition and subtraction. • Compare number sentences. • Missing number problems. 		<ul style="list-style-type: none"> • Recognise 2D and 3D shapes. • Count sides on a 2D shape. • Count vertices on a 2D shape. • Draw 2D shapes. • Lines of symmetry and shapes. • Use lines of symmetry to complete shapes. • Sort 2D shapes. • Count faces on 3D shapes.
Spring	Money:	Multiplication and division.		Length and height	Mass, capacity and temperature.
	<ul style="list-style-type: none"> • Count money (pence) 	<ul style="list-style-type: none"> • Recognise equal groups. • Make equal groups. • Add equal groups. • Introduce the multiplication symbol. 		<ul style="list-style-type: none"> • Measure in centimetres. • Measure in meters. 	<ul style="list-style-type: none"> • Compare mass. • Measure in grams. • Measure in kilograms.

	<ul style="list-style-type: none"> Count money pounds (notes and coins) Count money - pounds and pence. Choose notes and coins. Make the same amount. Compare amounts of money. Calculate with money. Make a pound. Find change. Two-step problems. 	<ul style="list-style-type: none"> Multiplication sentences. Use arrays. Make equal groups - grouping. Make equal groups - sharing. The 2 times table Divide by 2 Doubling and halving Odd and even numbers The 10 times tables Divide by 10 The 5 times table Divide by 5 The 5 and 10 times table 	<ul style="list-style-type: none"> Compare lengths and heights. Order lengths and heights. Four operations with lengths and heights. 	<ul style="list-style-type: none"> Four operations with mass. Compare volume and capacity. Measure in millilitres. Measure in litres. Four operations with volume and capacity. Temperature.
Summer	<p>Fractions:</p> <ul style="list-style-type: none"> Introduction to part-whole. Equal and unequal parts. 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. 	<p>Time</p> <ul style="list-style-type: none"> O'clock and half past Quarter past and quarter to. Tell the time past the hour. Tell the time to 5 minutes. Minutes in an hour. Hours in a day. 	<p>Statistics:</p> <ul style="list-style-type: none"> Make tally charts. Tables. Block diagrams. Draw pictograms (1 - 1) Interpret pictograms (1 - 1) Draw pictograms (2, 5 and 10). Interpret pictograms (2, 5 and 10). 	<p>Position and direction.</p> <ul style="list-style-type: none"> Language of position Describe movement. Describe turns. Describe movement and turns. <p>Shape patterns and turns.</p>

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| | <ul style="list-style-type: none">• Recognise three-quarters.• Find three-quarters.• Count in fractions up to a whole. | | | |
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Year 3

Year 3			
Autumn	Place Value <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 	Addition and Subtraction <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> <p>Add two numbers (no exchange)</p> <p>Subtract two numbers (no exchange)</p> <p>Add two numbers (across a 10)</p> <p>Add two numbers (across a 100)</p> <p>Subtract two numbers (across a 10)</p> <p>Subtract two numbers (across a 100)</p> <p>Add 2-digit and 3-digit numbers</p> <p>Subtract a 2-digit number from a 3-digit number</p> <p>Complements to 100</p> <p>Estimate answers</p> <p>Inverse operations</p> <p>Make decisions</p>	Multiplication and division <ul style="list-style-type: none"> • Multiplication - equal groups • Use arrays • Multiples of 2 • Multiples of 5 and 10 • Sharing and grouping • Multiply by 3 • Divide by 3 • The 3 times-table • Multiply by 4 • Divide by 4 • The 4 times-table • Multiply by 8 • Divide by 8 • The 8 times-table • The 2, 4 and 8 times-tables

Spring	<p>Multiplication and division</p> <p>Multiples of 10 Related calculations Reasoning about multiplication Multiply a 2-digit number by a 1-digit number - 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 Scaling How many ways?</p>	<p>Length and 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) • Equivalent lengths (centimetres and millimetres) • Compare lengths • Add lengths • Subtract lengths • What is perimeter? • Measure perimeter • Calculate perimeter 	<p>Fractions</p> <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 		<p>Mass and 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) • Compare mass • Add and subtract mass • Measure capacity and volume in millilitres • Measure capacity and volume in litres and millilitres • Equivalent capacities and volumes (litres and millilitres) • Compare capacity and volume • Add and subtract capacity and volume
	Summer	<p>Fractions</p> <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 	<p>Money</p> <ul style="list-style-type: none"> • Pounds and pence • Convert pounds and pence • Add money • Subtract money • Find change 	<p>Time</p> <p>Roman numerals to 12 Tell the time to 5 minutes Tell the time to the minute Read time on a digital clock Use a.m. and p.m.</p>	<p>Shape</p> <ul style="list-style-type: none"> • Turns and angles • Right angles • Compare angles • Measure and draw accurately • Horizontal and vertical • Parallel and perpendicular

			Years, months and days Days and hours Hours and minutes - use start and end times Hours and minutes - use durations Minutes and seconds Units of time Solve problems with time	<ul style="list-style-type: none">• Recognise and describe 2-D shapes• Draw polygons• Recognise and describe 3-D shapes• Make 3-D shapes	
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Year 4

Autumn	<p>Place value:</p> <ul style="list-style-type: none"> • Represent numbers to 1000. • Partition numbers to 1000. • Number line to 1000. • Thousands. • Represent numbers to 10,000. • Partition numbers to 10,000. • Flexible partitioning of numbers to 10,000. • Find 1, 10, 100, 1000 more or less than a number. • Number line to 10,000. • Estimate on a number line to 10,000. • Compare numbers to 10,000. • Order numbers to 10,000. • Roman numerals. • Round to the nearest 10. • Round to the nearest 100. • Round to the nearest 1000. • Round to the nearest 10, 100 or 1000. 	<p>Addition and subtraction:</p> <ul style="list-style-type: none"> • Add and subtract 1s, 10s, 100s and 1000s. • 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) • Subtract two 4-digit numbers (one exchange) • Subtract two 4-digit numbers (more than one exchange) • Efficient subtraction • Estimate answers. • Checking strategies. 	<p>Area:</p> <ul style="list-style-type: none"> • What is area? • Count squares. • Make shapes. • Compare areas. 	<p>Multiplication and division:</p> <ul style="list-style-type: none"> • Multiples of 3. • Multiply and divide by 6. • 6 times tables and division facts. • Multiply and divide by 9. • 9 times tables and division facts. • The 3-, 6- and 9-times tables. • Multiply and divide by 7. • 7-times tables and division facts. • 11 times tables and division facts. • 12 times-tables and division facts. • Multiply by 1 and 0. • Divide a number by 1 and itself. • Multiply three numbers.
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Spring	<p>Multiplication and division:</p> <ul style="list-style-type: none"> • Factor pairs. • Use factor pairs. • Multiply by 10. • 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 by a 2-digit number by a 1-digit number (1) • Divide by a 2-digit number by a 1-digit number (2) • Divide by a 3-digit number by a 1-digit number (1) • Correspondence problems • Efficient multiplication 	<p>Length and perimeter:</p> <ul style="list-style-type: none"> • Measure in kilometres and meters. • Equivalent lengths (kilometres and meters) • Perimeter on a grid. • Perimeter of a rectangle. • Perimeter of rectilinear shapes. • Find missing lengths of rectilinear shapes. • Calculate perimeter of rectilinear shapes. • Perimeter of regular polygons. • Perimeter of polygons. 	<p>Fractions:</p> <ul style="list-style-type: none"> • Understand the whole. • Count beyond 1. • Partition a mixed number. • Number lines with mixed numbers. • Compare and order mixed numbers. • Understand improper fractions. • Convert mixed numbers and improper fractions. • Convert improper fractions to mixed numbers. • Equivalent fractions on a number line. • Equivalent fraction families. • Add two or more fractions. • Add fractions and mixed numbers. • Subtract two fractions. • Subtract from whole numbers. • Subtract from mixed numbers. 	<p>Decimals:</p> <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.
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Summer	<p>Decimals:</p> <ul style="list-style-type: none"> • Make a whole with tenths. • Make a whole with hundredths. • Partition decimals. • Flexibly partition decimals. • Compare decimals. • Order decimals. • Round to the nearest whole number. • Halves and quarters as decimals. 	<p>Money:</p> <ul style="list-style-type: none"> • Write money using decimals. • Convert between pounds and pence. • Compare amounts of money. • 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-clock. • Convert from the 24 hour clock. 	<p>Shape:</p> <ul style="list-style-type: none"> • Understand angles as turns. • Identify angles. • Compare and order angles. • Triangles. • Quadrilaterals. • Polygons. • Lines of symmetry. • Complete a symmetric figure. 	<p>Statistics:</p> <ul style="list-style-type: none"> • Interpret charts. • Comparison, sum and difference. • Interpret line graphs. • Draw line graphs. 	<p>Position and direction:</p> <ul style="list-style-type: none"> • Describe position using coordinates. • Plot coordinates. • Draw 2D shapes on a grid. • Translate on a grid. • Describe translation on a grid.
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Year 5

Year 5				
Autumn	Place Value <ul style="list-style-type: none"> • Roman numerals to 1,000 • Numbers to 10,000 • Numbers to 100,000 • Numbers to 1,000,000 • Read and write numbers to 1,000,000 • 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 • Round within 100,000 • Round within 1,000,000 	Addition and Subtraction <ul style="list-style-type: none"> • Mental strategies • 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 • Find missing numbers 	Multiplication and division <ul style="list-style-type: none"> • Multiples • Common multiples • Factors • Common factors • Prime numbers • Square numbers • Cube numbers • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiples of 10, 100 and 1,000 	Fractions <ul style="list-style-type: none"> • Find fractions equivalent to a unit fraction • Find fractions equivalent to a non-unit fraction • 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 • Add fractions within 1 • Add fractions with total greater than 1 • Add to a mixed number • Add two mixed numbers • Subtract fractions • Subtract from a mixed number • Subtract from a mixed number - breaking the whole • Subtract two mixed numbers

Spring	<p>Multiplication and division</p> <ul style="list-style-type: none"> • 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 • 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 	<p>Fractions</p> <ul style="list-style-type: none"> • Multiply a unit fraction by an integer • Multiply a non-unit fraction by an integer • Multiply a mixed number by an integer • Calculate a fraction of a quantity • Fraction of an amount • Find the whole • Use fractions as operators 	<p>Decimals and 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 	<p>Perimeter and 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 • Estimate area 	<p>Statistics</p> <ul style="list-style-type: none"> • Draw line graphs • Read and interpret line graphs • Read and interpret tables • Two-way tables • Read and interpret timetables

			decimal places <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 • Equivalent fractions, decimals and percentages 			
Summer	Shape <ul style="list-style-type: none"> • Understand and use degrees • 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 	Position and direction <ul style="list-style-type: none"> • Read and plot coordinates • Problem solving with coordinates • Translation • Translation with coordinates • Lines of symmetry 	Decimals <ul style="list-style-type: none"> • Use known facts to add and subtract decimals within 1 • Complements to 1 • Add and subtract 	Negative numbers <ul style="list-style-type: none"> • Understand negative numbers • Count through zero in 1s • Count through 	Converting units <ul style="list-style-type: none"> • Kilograms and kilometres • Millimetres and millilitres • Convert units of length 	Volume <ul style="list-style-type: none"> • Cubic centimetres • Compare volume • Estimate volume • Estimate capacity

	<ul style="list-style-type: none"> • Lengths and angles in shapes • Regular and irregular polygons • 3-D shapes 	<ul style="list-style-type: none"> • Reflection in horizontal and vertical lines 	<p>decimals across 1</p> <ul style="list-style-type: none"> • 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 • Subtract decimals with different numbers of decimal places • Efficient strategies for adding and subtracting decimals • Decimal sequences • Multiply by 10, 100 and 1,000 	<p>zero in multiples</p> <ul style="list-style-type: none"> • Compare and order negative numbers • Find the difference 	<ul style="list-style-type: none"> • Convert between metric and imperial units • Convert units of time • Calculate with timetables 	
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			<ul style="list-style-type: none">• Divide by 10, 100 and 1,000• Multiply and divide decimals - missing values			
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Year 6

Autumn	<p>Place value:</p> <ul style="list-style-type: none"> • Numbers to 1,000,000. • Numbers to 10,000,000. • Read and write numbers to 10,000,000. • Powers of 10. • Number lines to 10,000,000. • Compare and order any integers. • Round any integer. • Negative numbers. 	<p>Addition, subtraction, multiplication, and division.</p> <ul style="list-style-type: none"> • Add and subtract integers. • 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. • Division using factors. • Introduction to long division. • Long division with remainders. • Solve problems with division. • Solve multi-step problems. • Order of operations. • Mental calculations and estimation. • Reason from known facts. 			<p>Fractions</p> <ul style="list-style-type: none"> • Equivalent fractions and simplifying. • Equivalent fractions on a number line. • Compare and order (denominator). • Compare and order (numerator). • Add and subtract simple fractions. • Add and subtract any two fractions. • Add mixed numbers. • Subtract mixed numbers. • Multi-step problems. 	<p>Fractions</p> <ul style="list-style-type: none"> • Multiply fractions by integers. • Multiply fractions by fractions. • Divide a fraction by an integer. • Divide any fractions by an integer. • Mixed fractions with fractions. • Fractions of an amount. • Fractions of an amount - find the whole. 	<p>Converting units.</p> <ul style="list-style-type: none"> • Metric measures. • Converting metric measures. • Calculate with metric measures. • Miles and kilometers. • Imperial measures. • Ratio
Spring	Ratio:	Algebra:	Decimals:	Fractions, decimals and percentages.	Area, perimeter and volume:	<p>Statistics:</p> <ul style="list-style-type: none"> • Line graphs. 	

	<ul style="list-style-type: none"> • Add or multiply? • Use ratio language. • Introduction to the ratio symbol. • Ratio and fractions. • Scale drawing. • Use scale factors. • Similar shapes. • Ratio problems. • Proportion problems. • Recipes. 	<ul style="list-style-type: none"> • 1-step function machines. • 2-step function machines. • Form expressions. • Substitutions. • Formulae. • Form equations. • Solve 1-step equations. • Solve 2-step equations. • Find pairs of values. • Solve problems with two unknowns. 	<ul style="list-style-type: none"> • Place value within 1. • Place value - integers and decimals. • Round decimals. • Add and subtract decimals. • Multiply by 10, 100 and 1000. • Divide by 10, 100 and 1000. • Multiply decimals by integers. • Divide decimals by integers. • Multiply and divide decimals in context. 	<ul style="list-style-type: none"> • Decimal and fraction equivalents. • Fractions as division. • Understand percentages. • Fractions to percentages. • Equivalent fractions, decimals and percentages. • Order fractions, decimals and percentages. • Percentage of an amount - one step. • Percentage of an amount - multistep. • Percentages - missing values. 	<ul style="list-style-type: none"> • Shapes - same area. • Area and perimeter. • Area of a triangle - counting squares. • Area of a right angled triangle. • Area of any triangle. • Area of parallelogram. • Volume - counting cubes. • Volume of cuboid. 	<ul style="list-style-type: none"> • Dual bar graphs. • Read and interpret pie charts. • Pie charts with percentages. • Draw pie charts. • The mean.
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Summer	Shape: <ul style="list-style-type: none"> • Measure and classify angles. • Calculate angles. • Vertically opposite angles. • Angles in a triangle. • Angles in triangles - special cases. • Angles in triangles - missing angles. • Angles in quadrilaterals. • Angles on polygons. • Circles. • Draw shapes accurately. • Nets of 3D shapes. 	Position and direction <ul style="list-style-type: none"> • The first quadrant. • Read and plot points in 4 quadrants. • Solve problems with coordinates. • Translations. • Reflections. 	SATS	Ready to progress on priority areas to strength and deepen priority areas of the maths curriculum.
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