St. Jude's Catholic Primary School

Whole School Maths Curriculum Overview

EYFS	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Topic	**Unit 1, Numbers to 5** • Counting to 1, 2, 3 • Counting to 4 • Counting to 5 **Unit 2, Comparing groups withing 5** • Comparing quantities of identical objects • Comparing quantities of non-identical objects	**Unit 3, Shape** • 3d Shapes • 2D Shapes **Unit 4, Change within 5** • One more • One less **Unit 5, Number bonds within 5** • Introducing the part-whole model **Unit 6, Space** • Spatial awareness	**Unit 7, Numbers to 10** • Counting to 6, 7, 8 • Counting to 9, 10 **Unit 8, Comparing numbers within 10** • Comparing groups up to 10 **Addition to 10** • Combining two groups to find the whole **Unit 10, Measure** • Length, height & distance • Weight	**Unit 11, Number bonds** • Using a ten frame • The part-whole model to 10 **Unit 12, Subtraction** • Subtraction **Unit 13, Exploring patterns** • Making simple patterns • Exploring more complex patterns	**Unit 14, Counting on and counting back** • Adding by counting on • Taking away by counting back **Numbers to 20** • Counting to and from 20 **Unit 16, Numerical patterns** • Doubling • Halving and sharing • Odds and evens	**Unit 17, Shape** • Composing and decomposing shapes **Unit 18, Measure** • Volume and capacity **Unit 19, Sorting** • Sorting into 2 groups **Unit 20, Time** • My day
ELG 2021	• Have a deep understanding of number to 10, including the composition of each number. • Subitise (recognise quantities without counting) up to 5. • Recognise 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.	• Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. • Have a deep understanding of number to 10, including the composition of each number. • Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some number bonds	• Have a deep understanding of number to 10, including the composition of each number. • Subitise (recognise quantities without counting) up to 5. • Verbally count, (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).	• Have a deep understanding of number to 10, including the 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.	• Have a deep understanding of number to 10, including the composition of each number. • Verbally count beyond 20, recognising the pattern of the counting system. • Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.	• Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.

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	• Subitise (recognise quantities without counting) up to 5	to 10, including double facts.	• 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. • Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.	• Have a deep understanding of number to 10, including the composition of each number.		

Year 1	Autumn Term	Spring Term	Summer Term
Number – Number and Place Value	**Textbook 1A** **Unit 1, Numbers to 10** • Sorting objects • Counting objects to 10 • Represent numbers to 10 • Count objects from a larger group • Count on from any number • One more • Count backwards from 10 to 0 • One less • Compare groups • Fewer or more? • <, > or = • Compare numbers • Order objects and number • The number line	**Textbook 1B** **Unit 6, Numbers to 20** • Count to 20 • Understand 10 • 11, 12 & 13 • 14, 15 & 16 • 17, 18 & 19 • Understand 20 • One more and one less • The number line to 20 • Label number lines • Estimate on a number line • Compare numbers to 20 • Order numbers to 20 **Unit 8, Numbers to 50** • Count to 50 • Numbers to 50 • 20, 30, 40, 50 • Count by making groups of 10s • Groups of 10s and 1s • Partition into 10s and 1s	**Textbook 1C** **Unit 14, Numbers to 100** • Count from 50 to 100 • 10s to 100 • Partition into 10s and 1s • Number line to 100 • One more and one less • Compare numbers

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		• One more, one less	
Number – Addition and Subtraction	**Unit 2, Part-Whole within 10** • Parts and wholes • The part-whole model • Write number sentences • Fact families – addition facts • Number bonds • Find number bonds • Number bonds to 10 **Unit 3, Addition within 10** • Add together • Add more • Addition problems • Find the missing number **Unit 4, Subtraction within 10** • How many are left? • Break apart • Fact families • Subtraction on a number line • Add or subtract 1 or 2 • Solve word problems – addition and subtraction	**Unit 7, Addition and subtraction within 20** • 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 – count back • Subtraction – find the difference • Related facts – fact families • Missing number problems • Solve word and picture problems – addition and subtraction	
Number - Multiplication & Division			**Unit 11, Multiplication & division** • Count in 2s • Count in 10s • Count in 5s • Equal groups • Add equal groups • Make arrays • Make doubles • Grouping • Sharing
Number - Fractions			**Unit 12, Fractions** • Recognise and find a half of a shape • Recognise and find a half of a quantity • Recognise and find a quarter of a shape • Recognise and find a quarter of a quantity
Geometry – Properties of Shape	**Unit 5, 2D & 3D Shapes** • Recognise and name 3D shapes • Sort 3D shapes • Recognise and name 2D shapes • Make patterns and shapes		

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Geometry – Position & Direction			**Unit 13, Position and direction** • Describe turns • Describe position - left and right • Describe position – forwards and backwards • Describe position – above and below Ordinal numbers
Measurement		**Unit 9, Introducing length and height** • Compare lengths and heights • Measure length (non-standard units of measure) • Measure length (using a ruler) • Solve word problems - length **Unit 10, Introducing weight and volume** • Heavier and lighter • Measure mass • Compare mass • Full and empty • Measure capacity • Compare capacity • Solve word problems – mass and capacity	**Unit 15, Money** • Recognise coins • Recognise notes • Count in coins **Unit 16, Time** • Before and after • Days of the week • Months of the year • Tell the time to the hour • Tell the time to the half hour

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Year 2	Autumn Term	Spring Term	Summer Term
Number – Number and Place Value	**Textbook 2A** **Unit 1, Numbers to 100** • Numbers to 20 • Count in 10s • Count in 10s and 1s • Recognise 10s and 1s • Build a number from 10s and 1s • Use a place value grid • Partition numbers to 100 • Partition numbers flexibly within 100 • Write numbers to 100 in expanded form • 10s on a number line to 100 • 10s and 1s on a number line to 100 • Estimate numbers on a number line • Compare numbers • Order numbers • Count in 2s. 5s and 10s • Count in 3s	**Textbook 2B**	**Textbook 2C**
Number – Addition and Subtraction	**Unit 2, Addition and Subtraction** • Fact families • Learn number bonds • Add two multiples of 10 • Complements to 100 (tens) • Add and subtracts 1s • Add by making 10 • Add using a number line • Add three 1 digit numbers • Add to the next 10 • Add across a 10 • Subtract across a 10 • Subtract from a 10 • Subtract a 1 digit number from a 2 digit number - across 10 **Unit 3, Addition and Subtraction** • 10 more, 10 less • Add and subtract 10s • Add two 2 digit numbers – add 10s and 1s • Add two 2 digit numbers – add more 10s and more 1s • Subtract a 2 digit number from a 2 digit number – not across 10 • Subtract a 2 digit number from a 2 digit number – across 10 • How many more? How many fewer? • Subtraction – find the difference • Compare number sentences • Missing number problems • Mixed addition and subtraction • Two step problems		**Unit 12, Problem solving and efficient methods** • My way, your way! • Use number facts • Use a 100 square • Missing numbers • Mental addition and subtraction • Efficient subtraction • Solve problems – addition and subtraction • Solve problems – multiplication and division • Solve problems – using the four operations

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Number - Multiplication & Division		**Unit 6, Multiplication & division** • Recognise equal groups • Make equal groups • Add equal groups • The x sign • Multiplication sentences • Use arrays • Make equal groups – grouping • Make equal groups – sharing **Unit 7, Multiplication & division** • 2 times-tables • Divide by 2 • Double and halve • Odd and even numbers • 10 times-tables • Divide by 10 • 5 times-tables • Divide by 5 • Bar modelling – groupings • Bar modelling – sharing		
Number - Fractions			**Unit 10, Fractions** • Introducing parts and wholes • Equal and unequal parts • Recognise a half • Find a half • Recognise a quarter • Find a quarter • Thirds • Find the whole • Unit and non-unit fractions • Recognise the equivalence of a half and two quarters • Recognise three quarters • Count in fractions up to a whole	
Geometry – Properties of Shape	**Unit 4, Properties of shape** • Recognise 2D and 3D shapes • Count sides on 2D shapes • Count vertices on 2D shapes • Draw 2D shapes • Lines of symmetry on shapes • Sort 2D shapes • Making patterns with 2D shapes • Count faces on 3D shapes • Count edges on 3D shapes • Count vertices on 3D shapes • Sort 3D shapes • Making patterns with 3D shapes			

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Geometry – Position & Direction			**Unit 13, Position and direction** • Language of position • Describe movement • Describe turns • Describe movement and turns • Make patterns and by turning shapes
Measurement		**Unit 5, Money** • 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 • Calculate with money • Make £1 • Find change • Two step problems **Unit 8, length & height** • Measure in cm • Measure in m • Compare lengths and heights • Order lengths and heights • Four operations with lengths and heights **Unit 9, Mass, capacity & temperature** • Compare mass • Measure in grams • Measure in kilograms • Compare volume and capacity • Measure in mls • Measure in ls • Measure temperature using thermometers • Read thermometers	**Unit 11, Time** • O'clock and half past • Quarter past and quarter to • Tell the time to 5 mins • Minutes in an hour • Hours in a day
Statistics			**Unit 14, Statistics** • Make tally charts • Tables • Block diagrams • Draw pictograms (1 to 1) • Interpret pictograms (1 to 1) • Draw pictograms (1 to 2, 5 to 10) • Interpret pictograms (1 to 2, 5 to 10)

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Year 3	Autumn Term	Spring Term	Summer Term
Number – Number and Place Value	**Textbook 3A** **Unit 1, Place value within 1,000** • Represent and partition numbers to 100 • Number line to 100 • 100s • Represent numbers to 1000 • Partition numbers to 1000 • Partition numbers to 1000 flexibily • 100s, 10s, 1s • Use a number line to 1000 • Estimate on a number line to 1000 • Find 1, 10, 100 more or less • Compare numbers to 1000 • Order numbers to 1000 • Count in 50s	**Textbook 3B**	**Textbook 3C**
Number – Addition and Subtraction	**Unit 2, Addition and subtraction** • Apply number bonds within 10 • Add/subtract 1s • Add/subtract 10s • Add/subtract 100s • Spot the pattern • Add 1s across 10 • Add 10s across 100 • Subtract 1s across 10 • Subtract 10 across 100 • Making connections **Unit 3, Addition and subtraction** • Add two numbers • Subtract two numbers • Add two numbers (across 10) • Add two numbers (across 100) • Subtract two numbers (across 10) • Subtract two numbers (across 100) • Add a 3 digit and a 2 digit number • Subtract a 2 digit number from a 3 digit number • Complements to 100 • Estimate answers • Inverse operations • Problem solving		
Number - Multiplication & Division	**Unit 4, Multiplication and division** • Multiplication – equal groups • Use arrays • Multiples of 2 • Multiples of 5 and 10	**Unit 6, Multiplication and division** • Multiples of 10 • Related calculations • Reasoning about multiplication • Multiply 1 digit number by a 1 digit number – exchange	

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	• Sharing and grouping **Unit 5, Multiplication and division** • Multiply by 3 • Divide by 3 • The 3 times-tables • Multiply by 4 • Divide by 4 • The 4 times-tables • Multiply by 8 • Divide by 8 • The 8 times-tables • Problem solving – multiplication and division • Understand divisibility	• Expanded method • Link multiplication and division • Divide 2 digit number by 1 digit number – no exchange • Divide 2 digit number by 1 digit number – flexible partitioning • Divide 2 digits by 1 digit with remainders • How many ways? • Problem solving – mixed problems	
Number - Fractions		**Unit 8, Fractions** • Understand the denominator of unit fractions • Compare and order unit fractions • Understand the numerator of non-unit fractions • Understand the whole • Compare and order non-unit fractions • Divisions on a number line • Count in fractions on a number line • Equivalent fractions as bar models • Equivalent fractions on a number line • Equivalent fractions	**Unit 11, Fractions** • Add fractions • Subtract fractions • Partition the whole • Problem solving – add and subtract fractions • Unit fractions of a set of objects • Non-unit fractions of a set of objects • Reason with fractions of an amount • Problem solving – fractions of measures
Geometry – Properties of Shape			**Unit 14, Angles and properties of shapes** • Turns and angles • Right angles in shapes • Compare angles • Measure and draw accurately • Horizontal and vertical • Parallel and perpendicular • Recognise, describe and draw 2D shapes • Recognise and describe 3D shapes • Make 3D shapes
Measurement		**Unit 7, Length and perimeter** • Measure in m and cm • Measure in cm and mm • M, cms and mms • Equivalent lengths – cm and m • Equivalent lengths – cm and mm • Compare lengths • Add lengths • Subtract lengths • Measure perimeters • Calculate perimeters • Problem solving – length **Unit 9, Mass**	**Unit 12, Money** • Pounds and pence • Converting pounds and pence • Add money • Subtract money • Find change **Unit 13, Time** • Roman numerals to 12 • Tell the time to 5 minutes • Tell the time to the minute • Read time on a digital clock • Use am and pm • Years, months and days

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Whole School Maths Curriculum Overview

		• Use scales • Measure mass • Measure mass in kilograms and grams • Equivalent masses • Compare mass • Add and subtract mass • Problem solving – mass **Unit 10, Capacity** • Measure capacity and volume in litres and millilitres • Measure in litres and millilitres • Equivalent capacities and volumes (litres and millilitres) • Compare capacity and volume • Add and subtract capacity and volume • Problem solving – capacity	• Days and hours • Hours and minutes – start and end times • Hours and minutes – durations • Hours and minutes – compare durations • Minutes and seconds • Solve problems with time
Statistics			**Unit 15, Statistics** • Interpret pictograms • Draw pictograms • Interpret bar charts • Collect and represent data in a bar chart • Simple two way tables

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Year 4	Autumn Term	Spring Term	Summer Term
Number – Number and Place Value	**Textbook 4A** **Unit 1, Place value - 4-digit numbers** • Represent and partition numbers to 1,000 • Number line to 1000 • Multiples of 1000 • 4 digit numbers • Partition 4 digit numbers flexibly • 1, 10, 100, 100 more or less • 1000s, 100s, 10s, 1s **Unit 2, Place value - 4-digit numbers** • Number line to 10,000 • Between two multiples • Estimate on a number line to 10,000 • Compare and order numbers to 10,000 • Round to the nearest 1000 • Round to the nearest 100 • Round to the nearest 10 • Round to the nearest 1000, 100 or 10	**Textbook 4B**	**Textbook 4C**
Number – Addition and Subtraction	**Unit 3, Addition and subtraction** • Add and subtract 1s, 10s, 100s, 1000s • Add two 4 digit numbers – one exchange • Add with more than one exchange • Subtract two 4 digit numbers • Subtract two 4 digit numbers - one exchange • Subtract two 4 digit numbers - more than one exchange • Exchange across two columns • Efficient methods • Equivalent difference • Estimate answers • Check strategies • Problem solving – one step • Problem solving – comparison • Problem solving – two steps • Problem solving – multi step		
Number - Multiplication & Division	**Unit 5, Multiplication and division** • 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 & 9 times-tables • Multiply and divide by 7 • 7 times-tables and division facts • 11 and 12 times-tables and division facts • Multiply by 1 and 0	**Unit 6, Multiplication and division** • Factor pairs • Multiply and divide by 10 • Multiply and divide by 100 • Related facts – multiplication • Related facts – division • Multiply and add • Informal written methods • Multiply 2 digit by 1 digit • Multiply 3 digit by 1 digit • Solve multiplication problems	

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	• Divide by 1 and itself • Multiply three numbers	• Basic division • Division and remainders • Divide 2 digit numbers • Divide 3 digit numbers • Correspondence problems • Efficient multiplication	
Number - Fractions		**Unit 8, Fractions** • Count beyond 1 • Partition a mixed number • Number lines with mixed numbers • Compare and order mixed numbers • Convert mixed numbers to improper fractions • Convert improper fractions to mixed numbers • Equivalent fractions • Equivalent fraction families • Simplify fractions **Unit 9, Fractions** • Add and subtract two or more fractions • Add fractions and mixed numbers • Subtract from mixed numbers • Subtract from whole amounts • Problem solving – add and subtract fractions • Fraction of an amount • Problem solving – fraction of an amount	
Number – Fractions, Decimals and Percentages		**Unit 10, Decimals** • Tenths as fractions • Tenths as decimals • Tenths on a place value grid • Tenths on a number line • Divide 1 digit by 10 • Divide 2 digits by 10 • Hundredths as fractions • Hundredths as decimals • Hundredths on a place value grid • Divide 1 or 2 digits by 100 • Divide by 10 and 100	**Unit 11, Decimals** • Make a whole • Partition decimals • Flexibly partition decimals • Compare decimals • Order decimals • Round to the nearest whole • Halves and quarters as decimals
Geometry – Properties of Shape			**Unit 14, Geometry – angles and 2D shapes** • Identify angles • Compare and order angles • Triangles • Quadrilaterals • Polygons • Reason about polygons • Lines of symmetry • complete a symmetric figure

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Geometry – Position and Direction			**Unit 16, Geometry – position and direction** • Describe position • Describe position using coordinates • Plot coordinates • Draw 2D shapes on a grid • Translate on a grid • Describe translation on a grid
Measurement	**Unit 4, Measure - area** • What is area? • Measure area using squares • Count squares • Make shapes • Compare area	**Unit 7, Length and perimeter** • Measure in km and m • Perimeter on a grid • Perimeter of a rectangle • Perimeter of rectilinear shapes • Find missing lengths in rectilinear shapes • Perimeters of polygons	**Unit 12, Money** • Write money using decimals • Convert between pounds and pence • Compare amounts of money • Estimate with money • Calculate with money • Solve problems with money **Unit 13, Time** • Years, months, weeks and days • Hours, minutes and seconds • Convert between analogue and digital times • Convert to the 24 hour clock • Problem solving – convert units of time
Statistics			**Unit 15, Statistics** • Interpret charts • Solve problems with charts • Interpret line graphs • Draw line graphs

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Year 5	Autumn Term	Spring Term	Summer Term
Number – Number and Place Value	**Textbook 5A** **Unit 1, Place value within 1,000,000** • Roman numerals • Numbers to 10,000 • Numbers to 100,000 • Numbers to 1,000,000 • Read and write 5- and 6-digit numbers • Powers of 10 • 10/100/1,000/ 10,000/100,000 more or less • Partition numbers to 1,000,000 **Unit 2, Place value within 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 numbers to the nearest 100,000 • Round numbers to the nearest 10,000 • Round numbers to the nearest 10, 100 and 1,000	**Textbook 5B**	**Textbook 5C** **Unit 15, Negative numbers** • Understand negative numbers • Count through zero • Compare and order negative numbers • Find the difference
Number – Addition and Subtraction	**Unit 3, Addition and subtraction** • Mental strategies (addition) • Mental strategies (subtraction) • Add whole numbers with more than 4 digits • Subtract whole numbers with more than 4 digits • Round to check answers • Inverse operations (addition and subtraction) • Multi-step addition and subtraction problems • Solve missing number problems • Solve comparison problems		
Number - Multiplication & Division	**Unit 4, Multiplication and division** • 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	**Unit 7, Multiplication and division** • Multiply a number up to 4 digits by a 1-digit number • Multiply 2-digit numbers (area model) • Multiply 2-digit numbers • Multiply a 3-digit number by a 2-digit number • Multiply a 4-digit number by a 2-digit number • Divide a number up to 4 digits by a 1-digit number • Divide with remainders • Efficient division • Solve problems with multiplication and division	
Number - Fractions	**Unit 5, Fractions** • Equivalent fractions • Equivalent fractions – unit and non-unit fractions • Equivalent fractions – families of equivalent fractions • Improper fractions to mixed numbers • Mixed numbers to improper fractions	**Unit 8, Fractions** • Multiply unit fractions by an integer • Multiply non-unit fractions by an integer • Multiply mixed numbers by integers • Fraction of an amount • Finding the whole	

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	• Compare fractions less than 1 • Order fractions less than 1 • Compare and order fractions greater than 1 **Unit 6, Fractions** • Add and subtract fractions • Add fractions within 1 • Add fractions with total greater than 1 • Add to a mixed number • Add two mixed numbers • Subtract fractions within 1 • Subtract from a mixed number • Subtract from a mixed number – breaking the whole • Subtract two mixed numbers • Solve fraction problems • Solve multi-step fraction problems •	• Using fractions as operators	
Number – Fractions, Decimals and Percentages		**Unit 9, Decimals and percentages** • Write decimals up to 2 decimal places – less than 1 • Write decimals up to 2 decimals places – greater than 1 • 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 grid • Compare and order decimals – same number of decimal places • Compare and order any decimals with up to 3 decimal places • Round to the nearest whole number • Round to one decimal place • Understand percentages • Percentages as fractions and decimals • Equivalent fractions, decimals and percentages	**Unit 14, Decimals** • Add and subtract decimals within 1 • 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 a different number of decimal places • Subtract decimals with a different number of decimal places • Problem solving with decimals • Decimal sequences • Multiply by 10 • Multiply by 10, 100 and 1,000 • Divide by 10 • Divide by 10, 100 and 1,000
Geometry – Properties of Shape			**Unit 12, Geometry – properties of shapes** • Understand and use degrees • Measure acute 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 • Regular and irregular polygons • Parallel lines • Perpendicular lines • Investigate lines • 3D shapes

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Geometry – Position and Direction			**Unit 13, Geometry – position and direction** • Read and plot coordinates • Problem solving with coordinates • Translate shapes • Translate points • Reflection • Reflection in horizontal and vertical lines
Measurement		**Unit 10, Measure – perimeter and area** • Perimeter of rectangles • Perimeter of rectilinear shapes • Perimeter of polygons • Area of rectangles • Area of compound shapes • Estimate area	**Unit 16, Measurement – converting units** • Kilograms and kilometres • Millimetres and millilitres • Convert units of length • Imperial units of length • Imperial units of mass • Imperial units of capacity • Convert units of time • Timetables – calculating • Problem solving – units of measure **Unit 17, Volume** • Cubic centimetres • Compare volumes • Estimate volume
Statistics		**Unit 11, Graphs and tables** • Draw line graphs • Read and interpret line graphs • Read and interpret tables • Two-way tables • Timetables	

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Year 6	Autumn Term	Spring Term	Summer Term
Number – Number and Place Value	**Textbook 6A** **Unit 1, Place value to 10,000,000** • Numbers to 1,000,000 • Numbers to 10,000,000 • Partition numbers to 10,000,000 • Powers of 10 • Number line to 10,000,000 • Compare and order any number • Round any number • Negative numbers	**Textbook 6B**	**Textbook 6C**
Number – Addition, Subtraction, Multiplication & Division	**Unit 2, Four operations** • Add integers • Subtract integers • Problem solving – addition and subtraction • Common factors • Common multiples • Rules of divisibility • Primes to 100 • Squares and cubes **Unit 3, Four operations** • Multiply by a 1-digit number • Multiply up to a 4-digit number by a 2-digit number • Short division • Division using factors • Divide a 3-digit number by 2-digit (long division) • Divide a 4-digit number by 2-digit (long division) • Long division with remainders • Order of operations • Brackets • Mental calculations • Reason from known facts		**Unit 15, Problem solving** • Problem solving - place value • Problem solving – negative numbers • Problem solving – addition and subtraction • Problem solving – four operations • Problem solving – fractions • Problem solving –decimals • Problem solving – percentages • Problem solving – ratio and proportion • Problem solving – time • Problem solving – position and direction • Problem solving – properties of shapes •
Number - Fractions	**Unit 4, Fractions** • Equivalent fractions and simplifying • Equivalent fractions on a number line • Compare and order fractions • Add and subtract simple fractions • Add and subtract any two fractions • Add mixed numbers • Subtract mixed numbers • Multi-step problems • Problem solving - add and subtract fractions		
Number – Fractions, Decimals and Percentages	**Unit 5, Fractions** • Multiply fractions by integers • Multiply fractions by fractions • Divide a fraction by an integer • Mixed questions with fractions	**Unit 9, Decimals** • Place value to 3 decimal places • Round decimals • Add and subtract decimals • Multiply by 10, 100 and 1,000	

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	• Fraction of an amount • Fraction of an amount – find the whole	• Divide by 10, 100 and 1,000 • Multiply decimals by integers • Divide decimals by integers • Fractions to decimals • Fractions as division **Unit 10, Percentages** • Understand percentages • Fractions to percentages • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Simple percentage of an amount • Percentage of an amount – 1% • Percentages of an amount • Percentages (missing values)	
Geometry – Properties of Shape			**Unit 13, Geometry - properties of shape** • Measure and classify angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle – missing angles • Angles in a triangle – special cases • Angles in quadrilaterals • Angles in polygons • Circles • Parts of a circle • Draw shapes accurately • Nets of 3D shapes
Geometry – Position and Direction			**Unit 14, Geometry – position and direction** • The first quadrant • Read and plot points in four quadrants • Translations • Reflections • Solve problems with coordinates
Measurement	**Unit 6, Measure – imperial and metric measures** • Metric measures • Convert metric measures • Calculate with metric measures • Miles and kilometres • Imperial measures	**Unit 11, Measure – perimeter, area and volume** • Shapes – same area • Area and perimeter • Area and perimeter – missing lengths • Area of a triangle – counting squares • Area of a right-angled triangle • Area of any triangle • Area of a parallelogram • Problem solving – area • Problem solving – perimeter • Volume – count cubes • Volume of a cuboid	
Ratio and Proportion	**Unit 7, Ratio and proportion** • Use ratio language • Introduce the ratio symbol • Use ratio		

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	• Scale drawing • Scale factors • Similar shapes • Ratio problems • Problem solving – ratio and proportion		
Algebra		**Unit 8, Algebra** • Find a rule – one step • Find a rule – two steps • Form expressions • Substitution • Formulae • Form and solve equations • Solve one-step equations • Solve two-step equations • Find pairs of values • Solve problems with two unknowns	
Statistics			**Unit 12, Statistics** • Interpret line graphs • Draw line graphs • Advanced bar charts • Understand and complete pie charts • Read and interpret pie charts • Pie charts and fractions • Pie charts and percentages • Introduction to the mean • Calculate the mean • Problem solving – mean