

<u>Counting and place value</u>		
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>
• Representing numbers to 10 • Sorting objects to 10 • Matching and comparing 1-10 • 1 more and 1 less up to 10 • Composition of 1-10 • Subitise to 10. • Count to 20 • Recognising number patterns to 20 • Matching quantity and numeral • Recognise numbers to 20 • Order numbers to 20 • Estimation within 20	• Sort objects. • Count objects. • Represent objects. • Count, read and write forwards from any number 0 to 20. • Count, read and writing backwards from any number 0 to 20. • Count one more. • Count one less. • One to one correspondence to start to compare groups. • Compare groups using language such as equal, more/greater, less/fewer. • Introduce = , > and < symbols. • Compare numbers. • Ordinal numbers (1st, 2nd, 3rd). • Understand tens and ones. • Numbers to 50. • Represent numbers to 50. • Counting to 100. • Partitioning numbers.	• Count objects to 100 and read and write numbers in numerals and words. • Represent numbers to 100. • Tens and ones with a part whole model. . • Use a place value chart for numbers to 100. • Compare objects to 100. • Compare numbers to 100. • Order objects and numbers to 100.

Counting and place value			
Year 3	Year 4	Year 5	Year 6
• Understanding hundreds. • Represent numbers to 1,000. • 100s, 10s and 1s (1). • Number line to 1,000. • Find 1, 10, 100 more or less than a given number. • Compare objects to 1,000. Compare numbers to 1,000. • Order numbers. • Count in 50s.	• Roman numerals to 100. • Round to the nearest 10. • Round to the nearest 100. • Count in 1,000s. • 1,000s, 100s, 10s and 1s. • Partitioning 1000's. • Number line to 10,000. • 1,000 more or less. • Compare numbers to 10,000. • Order numbers to 10,000. • Round to the nearest 1,000. • Count in 25s. • Negative numbers.	• Number to 10,000. • Roman numerals to 1,000. • Round to the nearest 10, 100 and 1000. • Number to 100,000. • Compare and order numbers to 100,000. • Round numbers within 100,000. • Numbers to a million. • Counting in 10s, 100s, 1,000s, 10,000s and 100,000s. • Compare and order numbers to a million. • Round numbers to a million. Negative numbers.	• Numbers to ten million. • Compare an order any number. • Round any numbers. • Negative numbers.

Addition and Subtraction		
Reception	Year 1	Year 2
• 1 more and 1 less up to 10 • Adding (how many altogether) • How many are hiding? (subtraction) • Adding to 10 and combining two groups • Subtraction within 20 • Adding within 20	• Find number bonds for numbers within 10. • Systematic methods for number bonds within 10. • Number bonds to 10. • Compare number bonds. • Part whole model. • Addition symbol. • Fact families – Addition facts. • Addition: Adding together. • Addition: Adding more. • Finding a part. • Subtraction: Taking away, how many left? Crossing out. • Subtraction: Counting back. • Subtraction: Finding the difference. • Comparing addition and subtraction statements $a + b > c$. • Comparing addition and subtraction statements $a + b > c + d$. • Add by counting on. • Subtraction – Not crossing 10. • Subtraction – Crossing 1	• Fact families – Addition and subtraction bonds to 20. • Bonds to 100 (tens) • Check calculations. • Compare number sentences. • Related facts. • Add and subtract 1s. • 10 more and 10 less. • Add and subtract 10s. • Add a 2-digit and 1-digit number – crossing ten. • Subtract a 1-digit number from a 2-digit number – crossing 10. • Add two 2-digit numbers – not crossing ten – add ones and add tens. • Add two 2-digit numbers – crossing ten – add ones and add tens. • Subtract a 2-digit number from a 2-digit number – not crossing ten. • Subtract a 2-digit number from a 2-digit number – crossing ten – subtract ones and tens. • Bonds to 100 (tens and ones). • Add three 1-digit numbers.

Addition and Subtraction			
<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
• Add and subtract multiples of 100. • Add and subtract 3-digit numbers and ones – not crossing 10. • Add 3-digit and 1-digit numbers – crossing 10. • Subtract a 1-digit number from a 3-digit number – crossing 10. • Add and subtract 3-digit numbers and tens – not crossing 100. • Add a 3-digit number and tens – crossing 100. • Add and subtract a 2-digit and 3-digit number – not crossing 10 or 100. • Add a 2-digit and 3-digit number – crossing 10 or 100. • Subtract 2-digit number from a 3-digit number cross the 10 or 100. • Add two 3-digit numbers – not crossing 10 or 100. • Add two 3-digit numbers – crossing 10 or 100. • Subtract a 3 –digit number from a 3-digit number – no exchange. • Subtract a 3-digit number from a 3-digit number – exchange. • Exchange answers to calculations	• Add and subtract 1s, 10s, 100s and 1000s. • Add 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.	• Add whole numbers with more than 4- digits (column method). • Subtract whole numbers with more than 4-digits (column method). • Round to estimate and approximate. • Inverse operations (addition and subtraction). Multi-step addition and subtraction problems	• Add and subtract whole numbers. • Add and subtract decimal numbers to 2dp.

<u>Multiplication and division</u>		
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>
• Doubling • Sharing fairly • Equal and unequal groups	• Count in 10s • Count in 2s. • Count in 5s. • Make equal groups. • Add equal groups. • Make arrays. • Make doubles to 10. • Make equal groups – grouping. • Make equal groups – sharing.	• Make equal groups – sharing. • Make equal groups – grouping. • Divide by 2. • Divide by 5. • Divide by 10. • Understand odd and even numbers. • Count in 2s, 5s and 10s. • Count in 3s • Recognise equal groups. • Make equal groups. • Add equal groups. • Multiplication sentences using the x symbol. • Multiplication sentences from pictures. • Use arrays.

Multiplication and division			
<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
• Multiplication – equal groups. • Multiplying by 3. • Multiplying by 4. • Multiplying by 8. • Dividing by 3. • Dividing by 4. • Dividing by 8. • Related calculations of 3,4 and 8. • Multiply 2-digits by 1-digit. • Divide 2-digits by 1-digit. • Scaling.	• Multiply by 10. • Multiply by 100. • Divide by 10. • Divide by 100. • Multiply by 1 and 0. • Divide by 1. • Multiply and divide by 6. • Multiply and divide by 9. • Multiply and divide by 7.	• Multiplying decimals by 10, 100 and 1000. • Dividing decimals by 10, 100 and 1,000. • Multiples. • Factors. • Common factors. • Prime numbers. • Square numbers. • Cube numbers • Multiplying by 10, 100 and 1000. • Dividing by 10, 100 and 1000. • Multiply 4-digits by 1-digit. • Multiply 2-digits by 2-digits. • Multiply 3-digits by 2-digits. • Multiply 4-digits by 2-digits. • Divide 4-digits by 1-digit. • Divide with remainders.	• Multiply up to 4-digit by 1-digit number. • Short division. • Division using factors. • Long division (1 – 4) • Common factors. • Common multiples. • Primes. • Squares and cubes. • Order of operations. • Mental calculations and estimation. Reasoning from known facts.

<u>Fraction</u>		
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>
	• Halving shapes or objects. • Halving a quantity. • Find a quarter of a shape or object. • Find a quarter of a quantity.	• Make equal parts. • Recognise half. • Recognise quarter. • Recognise a third. • Unit fractions • Non-unit fractions. • Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$. • Find three quarters. • Count in fractions.

Fractions			
<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
• Unit and non-unit fractions. • Making the whole. • Tenths. • Tenths as decimals. • Fractions of a number line. • Fractions of a set of objects.	• Equivalent fractions • Fractions greater than 1 • Count in fractions. • Add 2 or more fractions. • Subtract 2 fractions. • Subtract from whole amounts. • Calculate fractions of a quantity. • Compare fractions. • Order fractions. • Fraction of an amount.	• Equivalent fractions. • Improper fractions to mixed numbers. • Mixed numbers to improper fractions. • Number sequences. • Compare and order fractions less than 1. • Compare and order fractions greater than 1. • Add and subtract fractions. • Add 3 or more fractions. • Add mixed numbers. • Subtract mixed numbers. • Subtract – breaking the whole. • Subtract 2 mixed numbers. • Fraction of an amount. • Multiply unit fractions by an integer. • Multiply non-unit fractions by an integer. • Multiply mixed numbers by integers. • Using fractions as operators.	• Simplify fractions. • Fractions on a number line. • Compare & order (denominator) • Mixed addition and subtraction. • Multiply fractions by integers. • Multiply fractions by fractions. • Divide fractions by integers (1 – 2) • Four rules with fractions. • Finding the whole. • Fractions to percentages. • Equivalent FDP.

Decimal and percentages			
<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
	• Recognise tenths and hundredths. • Tenths as decimals. • Tenths on a place value grid. • Tenths on a number line. • Hundredths. • Hundredths as decimals. • Hundredths on a place value grid. • Make a whole. • Compare decimals. • Order decimals. • Round decimals.	• Decimals up to 2 d.p. • Decimals as fractions (1). • Understand thousandths. • Thousandths as decimals. • Rounding decimals. • Understand percentages. • Percentages as fractions and decimals. • Equivalent F.D.P. • Adding decimals within 1. • Subtracting decimals within 1. • Adding decimals – crossing the whole. • Adding decimals with the same number of decimal places. • Subtracting decimals with the same number of decimal places. • Adding decimals with a different number of decimal places. • Subtracting decimals with a different number of decimal places. • Adding and subtracting whole and decimals. • Decimal sequences.	• Three decimal places. • Multiply by 10, 100 and 1,000. • Divide by 10, 100 and 1,000. • Multiply decimals by integers. • Divide decimals by integers. • Division to solve problems. • Decimals as fractions. • Percentage of an amount (1). • Percentage of an amount (2). • Percentages – missing values. • Percentage increase and decrease. • Order FDP.

<u>Shape</u>						
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
• Naming and sorting 2d shapes (circles and triangles) • Positional language • Naming and sorting 2d shapes (squares and rectangles) • Positional language • Know some common 3D shapes • Patterns	• Recognise and name 3D shapes. • Sort 3D shapes. • Recognise and name 2D shapes. • Sort 2D shapes. • Patterns with 3D and 2D shapes.	• Recognise 2D and 3D shapes. • Count sides on 2D shapes. • Count vertices on 2D shapes. • Draw 2D shapes. • Lines of symmetry. • Sort 2D shapes. • Make patterns with 2D shapes. • Count faces on 3D shapes. • Count edges on 3D shapes. • Count vertices on 3D shapes. • Sort 3D shapes. • Make patterns with 3D shapes	• Turns and angles. • Right angles in shapes. • Compare angles. • Draw accurately. • Horizontal and vertical. • Parallel and perpendicular. • Recognise and describe 2D shapes. • Recognise and describe 3D shapes. • Make 3D shapes	• Identify angles. • Compare and order angles. • Triangles. • Quadrilaterals. • Lines of symmetry. • Complete a symmetric figure	Measuring angles in degrees. • Measuring with a protractor. • Drawing lines and angles accurately. • Calculating angles on a straight line. • Calculating angles around a point. • Calculating lengths and angles in shapes. • Regular and irregular polygons.	• Measure with a protractor. • Introduce angles. • Calculate angles. • Vertically opposite angles. • Angles in a triangle. • Angles in a triangle – special cases. • Angles in a triangle – missing angles. • Angles in special quadrilaterals. • Angles in regular polygons. • Draw shapes accurately. • Nets of 3D shapes.

<u>Money</u>						
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
•	• Recognising coins. • Recognising notes. • Counting in coins.	• Count money – pence. • Count money – pounds (notes and coins). • Count money – notes and coins. • Select money. • Make the same amount. • Compare money. • Find the total. • Find the difference. • Find change. Two-step problems.	Pounds and pence. • Converting pounds and pence. • Adding money. • Subtracting money. • Giving change.	Pounds and pence. • Ordering amounts of money. • Using rounding to estimate money. • Four operations		

Measurement		
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>
• Heavier and lighter • Measuring capacity • Comparing height and length • Days of the week • Measures of time • Capacity	• Compare lengths and heights. • Measure length • Introduce weight and mass. • Measure mass. • Compare mass. • Introduce capacity. • Measure capacity. • Compare capacity. • Before and after. • Dates. • Time to the hour. • Time to the half hour.	• Measure length (cm). • Measure length (m). • Compare lengths. • Order lengths. • Four operations with lengths. • Compare mass. • Measure mass in grams. • Measure mass in kilograms. • Compare capacity (ML and L). • Temperature. • Quarter past and quarter to. • Telling time to 5 minutes. • Minutes in an hour, hours in a day. • Find durations of time. • Compare durations of time.

<u>Measurement</u>			
<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
• Measure length. • Equivalent lengths – m & Cm. • Equivalent lengths – mm & cm. • Add lengths. • Subtraction lengths. • Measure perimeter. • Counting squares to find the area. • Comparing area. • know the months. • Hours in a day. • Telling the time to the minute. • AM and PM. • 24 hour clock. • Finding the duration. • Comparing the duration. • Measuring time in seconds. • Measure mass in g and KG. • Compare mass. • Add and subtract mass. • Measure capacity. • Compare capacity. • Add and subtract capacity.	• Kilometres. • Perimeter on a grid. Perimeter of a rectangle. Perimeter of rectilinear shapes. • Hours, minutes and seconds. • Analogue to digital – 12 hour. • Analogue to digital – 24 hour.	• Measure perimeter. • Calculate perimeter • Area of rectangles. • Area of compound shapes. • Area of irregular shapes. • What is volume? • Compare volume. • Estimate volume. • Estimate capacity • Imperial units. • Converting units of time. • Timetables. • Kilograms and kilometres. • Milligrams and millilitres.	• Metric measures. • Convert metric measures. • Calculate with metric measures. • Miles and kilometres. • Imperial measures. • Shapes – same area. • Area of a triangle. • Area of a parallelogram. • Volume – counting cubes. • Volume of a cuboid.

<u>Statistics</u>						
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
		• Make tally charts. • Draw pictograms (1-1). • Interpret pictograms (1-1). • Draw pictograms (2, 5 and 10). • Interpret pictograms (2, 5 and 10). • Block diagrams.	• Pictograms where pictures are worth more than 1. • Bar charts • Tables	• Interpret charts. • Comparison, sum and difference. • Introducing line graphs. • Line graphs.	• Read and interpret line graphs. • Draw line graphs. • Use line graphs to solve problems. • Read and interpret tables. • Two way tables. - Timetables.	• Read and interpret line graphs. • Draw line graphs. • Use line graphs to solve problems. • Circles. • Read and interpret pie charts. • Pie charts with percentages. • Draw pie charts. • The mean.

<u>Geometry – positions and direction</u>						
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
	• Describe turns. • Describe Position	• Describing movement. • Describing turns. • Describing movement and turns. • Making patterns with shapes.		• Describe position. • Draw on a grid. • Move on a grid. • Describe a movement on a grid.	• Position in the first quadrant. • Reflection. • Reflection with coordinates. • Translation. • Translation with coordinates.	• Coordinates in the first quadrant. • Coordinate in four quadrants. • Translations. - Reflections.

<u>Algebra</u>						
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
						• Find a rule – one step. • Find a rule – two step. • Use an algebraic rule. • Substitution. • Formulae. • Word problems. • Solve simple one step equations. • Solve two step equations. • Find pairs of values.

<u>Ratio</u>						
<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
						• Use ratio language. • Ratio and fractions. • Introducing the ratio symbol. • Calculating ratio. • Using scale factors. • Calculating scale factors. • Ratio and proportion problems