

Year 1 and 2 - Fluency, Reasoning & Problem Solving

	Year 1			Year 2		
	Autumn	Spring	Summer	Autumn	Spring	Summer
Number	<ul style="list-style-type: none"> Count forwards and backwards Count in tens from zero Compare and order Read and write numerals More and less than a given number Count objects reliably 	<ul style="list-style-type: none"> Count forwards and backwards Count in twos, fives and tens from zero Place value Compare and order More or less than a given number Sequences 	<ul style="list-style-type: none"> Count forwards and backwards Count in twos, fives and tens from zero Place Value Read, write, represent numbers Properties of number 	<ul style="list-style-type: none"> Count forwards and backwards Read and write numbers in numerals and words Compare and order, < and > signs Place value and partitioning of two-digit numbers 	<ul style="list-style-type: none"> Count forwards and backwards Place value and partition in different ways Recognising and positioning multiples of 10 Estimating 	<ul style="list-style-type: none"> Count forwards and backwards Compare and order, < and > signs Sequences Properties of number Half-way between
Addition and Subtraction	<ul style="list-style-type: none"> Understand addition and subtraction Vocabulary Count on or back to calculate Number facts 	<ul style="list-style-type: none"> Add by counting on Subtract by counting back Find the difference Number facts 	<ul style="list-style-type: none"> Add and subtract involving teens Find the difference Number facts Add and subtract 10 Pattern within calculation 	<ul style="list-style-type: none"> Understand addition and subtraction Count on or back to calculate Add and subtract multiples of 10 add and subtract single digits 	<ul style="list-style-type: none"> How many to the next ten Calculate using known facts and place value Finding a difference Add three one digit numbers 	<ul style="list-style-type: none"> Known facts to 20 Rounding and adjusting Using inverse Add and subtract using a range of strategies
Multiplication and division	<ul style="list-style-type: none"> Count in twos and tens from zero Doubles 	<ul style="list-style-type: none"> Count repeated groups Sharing 	<ul style="list-style-type: none"> Repeated addition, arrays Grouping Doubles facts 	<ul style="list-style-type: none"> Understanding multiplication Times tables Division as grouping 	<ul style="list-style-type: none"> Times tables Inverse relationships Division as sharing 	<ul style="list-style-type: none"> Times tables and related facts Doubles and halves Understanding remainders
Fractions	<ul style="list-style-type: none"> Halves 	<ul style="list-style-type: none"> Halving quantities Doubling and halving 	<ul style="list-style-type: none"> Halves and quarters Doubling and halving 	<ul style="list-style-type: none"> Count in halves Understand fraction notation Equal parts Halves, quarters and thirds 	<ul style="list-style-type: none"> Count in quarters Fractions of amounts 	<ul style="list-style-type: none"> Count in thirds Equivalence and fraction families Fractions of amounts
Measures	<ul style="list-style-type: none"> Compare and order objects Measure and use non-standard units Record measures taken 	<ul style="list-style-type: none"> Compare and order Measure and use non-standard units Measure and compare using standard units - Length 	<ul style="list-style-type: none"> Measure and compare using standard units - Capacity / volume Measure and compare using standard units - Mass / weight 	<ul style="list-style-type: none"> Compare and order Standard units Reading scales Recording measurements 	<ul style="list-style-type: none"> Compare and order Standard units Reading scales Measure and estimate to the nearest cm and m 	<ul style="list-style-type: none"> Compare and order temperatures Reading scales Measure and estimate – mass and capacity Simple scaling problems
Measures – Time	<ul style="list-style-type: none"> Vocabulary Days of the week 	<ul style="list-style-type: none"> o'clock months of the year 	<ul style="list-style-type: none"> o'clock and half-past 	<ul style="list-style-type: none"> Quarter to / past Minutes in an hour 	<ul style="list-style-type: none"> Read to the nearest five minutes Hours in a day 	<ul style="list-style-type: none"> Read to the nearest 5 minutes Compare and sequence intervals of time
Measures – money	<ul style="list-style-type: none"> Recognising coins Counting, addition and subtraction 	<ul style="list-style-type: none"> Exchanging coins Addition and subtraction 	<ul style="list-style-type: none"> Value of coins and notes Calculating with money 	<ul style="list-style-type: none"> Value of coins Making amounts Equivalence 	<ul style="list-style-type: none"> Total set of mixed coins Making amounts 	<ul style="list-style-type: none"> Making amounts Giving change
Geometry: properties of shapes	<ul style="list-style-type: none"> Recognise and name 2-D and 3-D shapes 	<ul style="list-style-type: none"> 2-D shapes 	<ul style="list-style-type: none"> 3-D shapes 	<ul style="list-style-type: none"> 2-D shape 	<ul style="list-style-type: none"> 3-D shape 	<ul style="list-style-type: none"> Symmetry in 2-D shapes
direction & movement	<ul style="list-style-type: none"> Using everyday language 	<ul style="list-style-type: none"> Whole and half turns 	<ul style="list-style-type: none"> Quarter and three-quarter turns 	<ul style="list-style-type: none"> Rotation as a turn 	<ul style="list-style-type: none"> Position Movement in a straight line 	<ul style="list-style-type: none"> Repeating patterns Sequences
Statistics				<ul style="list-style-type: none"> Block diagrams Venn diagrams 	<ul style="list-style-type: none"> Tally charts Block diagrams Carroll diagrams 	<ul style="list-style-type: none"> Pictograms

Year 3 and 4 - Fluency, Reasoning & Problem Solving

	Year 3			Year 4		
	Autumn	Spring	Summer	Autumn	Spring	Summer
Number	<ul style="list-style-type: none"> Count forwards and backwards Place value and partitioning of three-digit numbers Compare and order numbers up to 1000 Round to nearest 10 	<ul style="list-style-type: none"> Count forwards and backwards Place value and partitioning in different ways Read and write numbers in numerals and words Sequences Estimation 	<ul style="list-style-type: none"> Count in steps of 3, 4, 8, 50 and 100 Compare and order numbers up to 1000 and use the < > signs Estimate points on a number line Half-way between Round to nearest 10 or 100 	<ul style="list-style-type: none"> Count forwards and backwards Place value and partitioning in different ways Compare and order Round to nearest 10, 100, 1000 	<ul style="list-style-type: none"> Negative numbers in context Compare and order negative numbers Count in steps of 6, 7, 9, 25 and 1000 Roman numerals 	<ul style="list-style-type: none"> Place value and partitioning Compare and order Half-way between Sequences to involving negative numbers or decimals
Addition and Subtraction	<ul style="list-style-type: none"> Number pairs Mental addition and subtraction of two digit numbers Finding a small difference 	<ul style="list-style-type: none"> Number pairs to 100 Expanded addition and subtraction Formal columnar addition and subtraction 	<ul style="list-style-type: none"> Mental addition and subtraction of multiples of 10 and 100 Formal columnar addition and subtraction of three digit numbers Estimate and use inverse Finding the difference 	<ul style="list-style-type: none"> Mental addition and subtraction Formal columnar addition and subtraction Using inverse to check Number facts to 100 	<ul style="list-style-type: none"> Mental addition and subtraction Formal columnar addition and subtraction Estimate and use inverse to check Number facts Find the difference 	<ul style="list-style-type: none"> Mental addition and subtraction Formal columnar addition and subtraction Estimate and use inverse to check Round and adjust to calculate
Multiplication and division	<ul style="list-style-type: none"> Times table facts Multiply a teens by a single digit Scaling problems 	<ul style="list-style-type: none"> Times table facts Multiply a two digit by single digit Divide using known facts 	<ul style="list-style-type: none"> Times table facts Divide and multiply a two digit by one digit number 	<ul style="list-style-type: none"> Times tables facts Multiply and divide by 10, 100 Informal methods Factor pairs Formal method of multiplication Informal method of division 	<ul style="list-style-type: none"> Times tables facts Vocabulary – multiple, factor, product Formal method of multiplication Informal method of division 	<ul style="list-style-type: none"> Multiply three single digits Formal method of multiplication Mental division Know all facts to 12 x 12 Formal method of short division Estimate answers by rounding
Fractions (including decimals)	<ul style="list-style-type: none"> Compare / order unit fractions Fraction equivalence Unit fraction of amounts 	<ul style="list-style-type: none"> Proper fractions Equivalence Fraction pairs – total one whole 	<ul style="list-style-type: none"> Understand fractions as numbers Understand fractions as division Add and subtract fractions 	<ul style="list-style-type: none"> Recognise and represent equivalences Tenths and hundredths Add and subtract fractions beyond one whole 	<ul style="list-style-type: none"> Fraction families Equivalence using factors and multiples Decimal equivalence $\frac{1}{10}$, $\frac{1}{100}$ Place value to 2 decimal places Compare and order 	<ul style="list-style-type: none"> Recognise equivalence between fractions and decimals Explore equivalence Decimal bonds to 1 Round to whole
Measures	<ul style="list-style-type: none"> Standard units - mass Sensible estimates Reading scales-marked divisions 	<ul style="list-style-type: none"> Standard units - length Estimate and measure Perimeter 	<ul style="list-style-type: none"> Standard units – volume Sensible estimates Reading scales-marked divisions 	<ul style="list-style-type: none"> Know, use and convert standard measures Measure and compare volume Reading scales 	<ul style="list-style-type: none"> Use standard units – length Estimate, measure and compare Perimeter of rectilinear shapes 	<ul style="list-style-type: none"> Area of rectilinear shapes Measure and compare lengths – decimal notation
Measures – Time	<ul style="list-style-type: none"> Time conventions Read the time to five minutes Analogue , digital, Roman 	<ul style="list-style-type: none"> Read the time to one minute Analogue and digital A.M. and P.M. times 	<ul style="list-style-type: none"> Read the time fluently – using analogue and digital clocks 24 hour clock 	<ul style="list-style-type: none"> Read and write to the nearest minute Time durations 	<ul style="list-style-type: none"> Read and write 24 hour clock Convert between 12 and 24 hour 	<ul style="list-style-type: none"> Use timetables Convert between units of time
Measures – money	<ul style="list-style-type: none"> Equivalence and making amounts 	<ul style="list-style-type: none"> Giving change Money notation (decimals) 	<ul style="list-style-type: none"> Rounding to estimate Equivalence between coins 		<ul style="list-style-type: none"> Money in context 	<ul style="list-style-type: none"> Find totals with money – mental and written methods
Geometry: properties of shapes	<ul style="list-style-type: none"> Right angles Ordering and comparing angles 	<ul style="list-style-type: none"> Horizontal, vertical, parallel and perpendicular lines Describe & construct 3-D shapes 	<ul style="list-style-type: none"> Symmetry Describe and construct 2-D shapes 	<ul style="list-style-type: none"> Regular and irregular polygons Properties of triangles 	<ul style="list-style-type: none"> Symmetry in polygons Acute and obtuse angles Compare and order angles 	<ul style="list-style-type: none"> Symmetry - lines of orientation Symmetric patterns
direction & movement					<ul style="list-style-type: none"> Read and plot co-ordinates in the first quadrant 	<ul style="list-style-type: none"> Understand and describe translations
Statistics	<ul style="list-style-type: none"> Bar charts – scales axis Venn and Carroll diagrams 	<ul style="list-style-type: none"> Pictograms Sort sets of mixed data 	<ul style="list-style-type: none"> Interpret and present data in meaningful ways 	<ul style="list-style-type: none"> Represent and interpret discrete data 	<ul style="list-style-type: none"> Compare and interpret data presented in different ways 	<ul style="list-style-type: none"> Interpret and present continuous data

Year 5 and 6 - Fluency, Reasoning & Problem Solving

	Year 5			Year 6		
	Autumn	Spring	Summer	Autumn	Spring	Summer
Number	<ul style="list-style-type: none"> ✿ Place value and partitioning in different ways ✿ Compare and order ✿ Round to the nearest 10, 100, 1 000, 10 000 and 100 000 	<ul style="list-style-type: none"> ✿ Negative numbers ✿ Order and compare positive and negative numbers ✿ Read Roman numerals to 1000 	<ul style="list-style-type: none"> ✿ Linear sequences ✿ Half-way between ✿ Estimation 	<ul style="list-style-type: none"> ✿ Read, write, compare and order numbers to 10 million ✿ Place value and partitioning ✿ Rounding ✿ Estimating 	<ul style="list-style-type: none"> ✿ Compare and order positive and negative numbers ✿ Calculate intervals between positive and negative numbers 	
Addition and Subtraction	<ul style="list-style-type: none"> ✿ Decimal number facts ✿ Mental calculation involving large numbers and decimals ✿ Formal written methods 	<ul style="list-style-type: none"> ✿ Decimals number facts ✿ Mental calculation involving large numbers and decimals ✿ Formal written methods 	<ul style="list-style-type: none"> ✿ Finding the difference ✿ Rounding to check ✿ Mental calculation involving large numbers and decimals ✿ Formal written methods 	<ul style="list-style-type: none"> ✿ Factors and primes ✿ Mental and written calculation ✿ Formal written methods of long multiplication and division 	<ul style="list-style-type: none"> ✿ Using brackets and order of operations ✿ Formal written methods of multiplication and division 	<ul style="list-style-type: none"> ✿ Secure calculation methods ✿ Solving problems using all four operations
Multiplication and division	<ul style="list-style-type: none"> ✿ Factor pairs ✿ Square numbers ✿ Multiply and divide by 10, 100 and 1000 ✿ Mental calculation ✿ Formal written methods 	<ul style="list-style-type: none"> ✿ Factor pairs ✿ Prime numbers ✿ Mental calculation ✿ Formal written methods of short division ✿ Formal written method of short and long multiplication 	<ul style="list-style-type: none"> ✿ Common factors ✿ Cube numbers ✿ Mental calculation ✿ Formal written methods of short division ✿ Formal written method of short and long multiplication ✿ Scaling problems 			
Fractions (including decimals and percentages)	<ul style="list-style-type: none"> ✿ Finding equivalent fractions ✿ Mixed numbers and improper fractions ✿ Read, write, compare and order decimals ✿ Rounding decimals 	<ul style="list-style-type: none"> ✿ Add and subtract fractions ✿ Find fractions of amounts ✿ Conversion between fractions and decimals ✿ Equivalence between fractions and decimals 	<ul style="list-style-type: none"> ✿ Understanding percentages ✿ Finding simple percentages ✿ Multiply proper fractions and mixed numbers by whole numbers 	<ul style="list-style-type: none"> ✿ Simplify and find equivalence fractions ✿ Compare and order fractions ✿ Add and subtract proper fractions and mixed numbers ✿ Read, write, compare and order decimals ✿ Rounding ✿ Multiply and divide by 10, 100 and 1000 ✿ Equivalence between fractions, decimals and percentages 	<ul style="list-style-type: none"> ✿ Multiply pairs of proper fractions ✿ Divide proper fractions by whole numbers ✿ Decimal place value of decimals up to three decimal places ✿ Multiply one digit decimals with two decimal places by whole numbers ✿ Written short division with answers involving decimals 	<ul style="list-style-type: none"> ✿ Equivalence between fractions, decimals and percentages ✿ Add and subtract mixed numbers ✿ Multiplying and dividing involving decimals
Ratio and Proportion				<ul style="list-style-type: none"> ✿ Know, use and identify scale factors 	<ul style="list-style-type: none"> ✿ Understanding and calculating with percentages 	<ul style="list-style-type: none"> ✿ Understand and calculate ratio and direct proportion
Algebra				<ul style="list-style-type: none"> ✿ Representing unknowns ✿ Expressions 	<ul style="list-style-type: none"> ✿ Sequences ✿ n^{th} term 	<ul style="list-style-type: none"> ✿ Expressing an unknown in problems
Measures	<ul style="list-style-type: none"> ✿ Conversions between metric units ✿ Perimeter of composite shapes 	<ul style="list-style-type: none"> ✿ Conversions between metric and imperial units ✿ Calculate and compare the area of rectangles 	<ul style="list-style-type: none"> ✿ Time conversions ✿ Estimate and compare volume 	<ul style="list-style-type: none"> ✿ Perimeter ✿ Area of triangles and parallelograms 	<ul style="list-style-type: none"> ✿ Estimate, compare and calculate volume ✿ Area of compound shapes 	<ul style="list-style-type: none"> ✿ Imperial and metric conversions ✿ Estimate, compare and calculate volume
Geometry: properties of shapes	<ul style="list-style-type: none"> ✿ Recognise, measure and name angles ✿ Calculate missing angles 	<ul style="list-style-type: none"> ✿ Diagonal and parallel lines ✿ Properties of rectangles 	<ul style="list-style-type: none"> ✿ 3-D/2-D representations ✿ Regular and irregular shapes ✿ Angles at a point 	<ul style="list-style-type: none"> ✿ Triangles and quadrilaterals ✿ Angles in polygons ✿ Draw 2d shapes with equipment 	<ul style="list-style-type: none"> ✿ Circle properties and construction ✿ Angles on a straight line 	<ul style="list-style-type: none"> ✿ Drawing and constructing nets ✿ Angles in polygons
direction & movement		<ul style="list-style-type: none"> ✿ Reflection 	<ul style="list-style-type: none"> ✿ Translation 	<ul style="list-style-type: none"> ✿ Plot points in all four quadrants 	<ul style="list-style-type: none"> ✿ Translation and reflection 	
Statistics	<ul style="list-style-type: none"> ✿ Timetables 	<ul style="list-style-type: none"> ✿ Timetables ✿ Tables 	<ul style="list-style-type: none"> ✿ Line graphs ✿ Tables 	<ul style="list-style-type: none"> ✿ Pie charts 	<ul style="list-style-type: none"> ✿ Mean ✿ Pie charts 	<ul style="list-style-type: none"> ✿ Line graphs