

	YEAR 1 Autumn	Spring	Summer
Deepening Understanding	<p>Place Value Wk 1-5</p> <ol style="list-style-type: none"> 1.Sorting objects 2.Counting objects (10) 3.Represent objects 4.Count, read and write forwards (0-10) 5. Count, read and write backwards (0-10) 6. One more 7.One less 8. One to One Correspondence 9. Comparing groups to 10 10. Introduce symbols 11 Comparing numbers 12 Order Groups 13 Order numbers 14 Ordinal numbers 15 The number line 16 Part Whole Model <p>Addition & Subtraction Wk 6-10</p> <ol style="list-style-type: none"> 17.The addition symbol 18. Fact families 19. Find number bonds (within 10) 20 Systematic bonds 21 Number bonds to 10 22 Comparing number bonds 23 Adding together 24 Adding more 25 Finding a part 26 Subtraction (Taking away, crossing out) 27. Introducing the subtraction symbol 28. Finding a part/braking apart 29. Fact Families (The 8 facts) 30 Subtraction counting back 31 Subtraction finding the difference 32 Compare addition and subtraction statements 1 33. Compare addition and subtraction statements 2 <p>Geometry Wk 11</p> <ol style="list-style-type: none"> 34. Recognise and name 3D shapes 35.Sort 3D shapes 36. Recognise and name 2D shapes 37. Sort 2D shapes 38. Patterns with 2D and 3D Shapes <p>Wk 12 Consolidation</p>	<p>Place Value Wk 1-3</p> <ol style="list-style-type: none"> 39.Count numbers to 20 in numerals and words 40. Numbers 11-20 41. Tens and ones 42. One more/One less (numbers to 20) 43. Compare groups of objects 44. Compare numbers to 20 45. Order groups of objects 46. Order Numbers <p>Addition and subtraction Wk 4-6</p> <ol style="list-style-type: none"> 47. Add by counting on 48.Find and make number bonds 49. Add by making 10 50 Subtraction not crossing 10 51. Subtraction crossing 10 (1) 52. Subtraction crossing 10 (2) 53. Related facts 54. Compare number sentences <p>Place Value Wk 7-8</p> <ol style="list-style-type: none"> 55. Numbers to 50 56. Tens and ones 57. Represent numbers to 50 58. One more/one less (to 50) 59. Comparing objects within 50 60. Comparing numbers within 50 61. Ordering numbers to 50 62. Count in 2s 63. Count in 5s <p>Length and height Wk 9</p> <ol style="list-style-type: none"> 64. Compare lengths and heights 65. Measure lengths (1) 66. Measure lengths (2) <p>Mass and volume Wk 10-11</p> <ol style="list-style-type: none"> 67. Introduce weight and mass 68. Measure mass 69. Compare mass 70. Introduce capacity and volume 71. Measure capacity 72. Compare capacity <p>Wk 12 Consolidation</p>	<p>Place Value Wk 1</p> <p>Recap count in 2s & 5s</p> <p>73. Count in 10s</p> <p>Multiplication and division Wk 1- 3</p> <ol style="list-style-type: none"> 74. Make equal groups 75. Add equal groups 76. Make arrays 77. Making doubles 78. Make equal groups (grouping) 79. Make equal groups (sharing) <p>Fractions Wk 4-5</p> <ol style="list-style-type: none"> 80. Find a half of shapes 81. Find half of an amount 82. Find a quarter of shapes 83. Find a quarter of an amount <p>Geometry- Position and direction Wk 6</p> <ol style="list-style-type: none"> 84. Describe turns 85. Describe position (1) 86. Describe position (2) <p>Place value Wk 7-8</p> <ol style="list-style-type: none"> 87. Counting to 100 88. Partitioning numbers 89. Comparing numbers (1) 90. Comparing numbers (2) 91. Ordering Numbers 92. One more, one less <p>Measurement- money Wk 9</p> <ol style="list-style-type: none"> 93. Recognising coins 94. Recognise notes 95. Counting in coins <p>Measurement- time Wk 10-11</p> <ol style="list-style-type: none"> 96. Before and after (time) 97. Dates 98. Time to the hour 99. Time to half an hour 100. Writing time 101. Compare time <p>Wk 12 Consolidation</p>
	National Curriculum	<p>Number Place Value (within 10)</p> <p>Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number.</p> <ul style="list-style-type: none"> Count, read and write numbers to 10 in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. <p>Number: Addition and Subtraction (within 10)</p> <p>Represent and use number bonds and related subtraction facts within 10.</p> <ul style="list-style-type: none"> Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one digit numbers to 10, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems. <p>Geometry</p> <p>Recognise and name common 2-D shapes, including: (e.g. rectangles (including squares), circles and triangles).</p> <ul style="list-style-type: none"> Recognise and name common 3-D shapes, including: (e.g. cuboids (including cubes), pyramids and spheres) 	<p>Number Place Value (within 20)</p> <p>Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number.</p> <ul style="list-style-type: none"> Count, read and write numbers to 20 in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. <p>Number: Addition and Subtraction</p> <p>Represent and use number bonds and related subtraction facts within 20.</p> <ul style="list-style-type: none"> Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one-digit and two-digit numbers to 20, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$. <p>Number Place Value (within 50) (including multiples of 2, 5 and 10)</p> <p>Count to 50 forwards and backwards, beginning with 0 or 1, or from any number.</p> <ul style="list-style-type: none"> Count, read and write numbers to 50 in numerals. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Count in multiples of twos, fives and tens. <p>Measurement (length and height)</p> <p>Measurement: Length and Height Measure and begin to record lengths and heights.</p> <ul style="list-style-type: none"> Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half). <p>Measurement (weight and volume)</p> <p>Measurement: Weight and Volume Measure and begin to record mass/weight, capacity and volume.</p> <ul style="list-style-type: none"> Compare, describe and solve practical problems for mass/weight:[for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter].

YEAR 2 Autumn	Spring	Summer
<p>Place value Wk 1-4</p> <ol style="list-style-type: none"> Counting to 100 Reading and writing numbers to 100 Representing numbers to 100 Tens and ones- Part whole model Tens and ones using addition Place value chart Compare objects Compare numbers Order numbers 2s, 5s and 10s Counting in 3s <p>Addition and subtraction Wk 5-9</p> <ol style="list-style-type: none"> Fact families (bonds to 20) Check calculations Compare number sentences Related facts Number bonds to 100 (10s) Add and subtract 1s 10 more/ 10 less Add and subtract 10s Add two digits and 1 digit crossing 10s Subtract 1 digit from 2 digits crossing 10s Add two 2-digit numbers (not crossing 10s) Add two 2-digit numbers- crossing 10 Subtract two 2-digit numbers- not crossing 10 Subtract two 2-digit numbers- crossing 10 Number bonds to 100 (tens and ones) Adding three 1 digit numbers <p>Shape Wk 10-12</p> <ol style="list-style-type: none"> Recognise 2D and 3D shapes Count the sides on 2D shapes Count the 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 	<p>Measurement- Money Wk 1-2</p> <ol style="list-style-type: none"> Count money (pence) Count money (pounds) Count money (notes and coins) Select money Make the same amount of money Compare money Find the total of the money Find the difference between the money Find change Two-step problems with money <p>Multiplication and division Wk 3-7</p> <ol style="list-style-type: none"> Recognise equal groups Make equal groups Add equal groups Multiplication sentences using the x symbol Multiplication sentences from pictures Using arrays for multiplication 2 times table 5 times table 10 times table Make equal groups (sharing) Make equal groups (grouping) Divide by 2 Odd and even numbers Divide by 5 Divide by 10 <p>Measurement- Length and height Wk 8-9</p> <ol style="list-style-type: none"> Measure lengths (cm) Measure lengths (m) Compare lengths Order lengths Measure length four operations <p>Measurement- Mass, capacity, and temperature Wk 10-12</p> <ol style="list-style-type: none"> Compare mass Measure mass Compare volume Millilitres Litres Temperature 	<p>Fractions Wk 1-3</p> <ol style="list-style-type: none"> Make equal parts Recognise one half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Unit fractions non-unit fractions Equivalence of half and 2 quarters Find three quarters Count in fractions <p>Measurement- Time Wk 4-6</p> <ol style="list-style-type: none"> O'clock and half past Quarter past and quarter to Telling the time to five minutes Hours and days Find durations of time Compare durations of time <p>Statistics Wk 7-8</p> <ol style="list-style-type: none"> 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 <p>Geometry- Position and direction Wk9-10</p> <ol style="list-style-type: none"> Describing movement Describing turns Describing movement Making patterns with shapes <p>Consolidation</p>
<p>Place Value</p> <ul style="list-style-type: none"> Read and write numbers to at least 100 in numerals and in words. Recognise the place value of each digit in a two-digit number (tens, ones) Identify, represent, and estimate numbers using different representations including the number line. Compare and order numbers from 0 up to 100; use and = signs. Use place value and number facts to solve problems. Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward. <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers. Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. <p>Shape</p> <ul style="list-style-type: none"> Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]. Compare and sort common 2-D and 3-D shapes and everyday objects. 	<p>Money</p> <ul style="list-style-type: none"> Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. <p>Multiplication and Division</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) sign. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. <p>Measurement- Length and height</p> <ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. Compare and order lengths, mass, volume/capacity and record the results using >, < and =. <p>Measurement- Mass, capacity, and temperature</p> <ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. Compare and order lengths, mass, volume/capacity and record the results using >, < and =. 	<p>Statistics</p> <ul style="list-style-type: none"> Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data. <p>Fractions</p> <ul style="list-style-type: none"> Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity. Write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2. <p>Geometry-Position and Direction</p> <ul style="list-style-type: none"> Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise). Order and arrange combinations of mathematical objects in patterns and sequences. <p>Measurement- Time</p> <ul style="list-style-type: none"> Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.

YEAR 3 Autumn	Spring	Summer
<p>Place value Wk 1-3</p> <ol style="list-style-type: none"> Hundreds Numbers to 1000 100s, 10s and 1s Number line to 1000 1, 10 and 100 more or less Compare objects Compare numbers Order Numbers Count in 50s <p>Addition and subtraction Wk 4-8</p> <ol style="list-style-type: none"> Add and subtract multiples of 100 Add and subtract 3 digits and 1 digit (not crossing 10s) Add 3 digits and 1 digit crossing 10s Subtract 1 digit from 3 digits (crossing 10s) Add and subtract 3 digit and 2-digit numbers (not crossing 100) Add 3 digit and 2-digit numbers (crossing 100) Subtract 3 digits and 2 digits (crossing 100) Add and subtract 100s Pattern spotting Add and subtract 3 digits and 2 digits (no exchange) Add 3 digit and 2-digit numbers with exchange Subtract 3 digits and 2 digits with exchange Add two 3-digit numbers (no exchange) Add two 3-digit numbers (crossing 10 or 100) Subtract 3 digits from 3 digits (methods) Subtract Two 3-digit numbers (crossing 10 or 100) Estimate answers to calculations Check answers <p>Multiplication and division Wk 9-12</p> <ol style="list-style-type: none"> Equal groups Multiply by 3 Divide by 3 3 Times Table Multiply by 4 Divide by 4 4 times table Multiply by 8 Divide by 8 8 times table 	<p>Multiplication and division Wk 1-3</p> <ol style="list-style-type: none"> Comparing statements Related calculations Multiply 2 digits by 1 digit (1) Multiply 2 digits by 1 digit (2) Divide 2 digits by 1 digit (1) Divide 2 digits by 1 digit (2) Divide 2 digits by 1 digit (3) Scaling How many ways? <p>Length and perimeter Wk 4-6</p> <ol style="list-style-type: none"> Measure length Equivalent lengths (m and cm) Equivalent lengths Compare lengths Add lengths Subtract length Measure perimeter Calculate perimeter <p>Fractions Wk 7-9</p> <ol style="list-style-type: none"> Unit and non-unit fractions Making the whole Tenths Count in tenths Tenths as decimals Fractions on number lines Fractions of a set of objects 1 Fractions of a set of objects 2 Fractions of a set of objects 3 <p>Mass and capacity Wk 10-12</p> <ol style="list-style-type: none"> Measuring mass in grams Measuring mass in grams and kilograms Compare mass Add and subtract mass Measure capacity 1 Measure capacity 2 Compare capacity Add and subtract capacity 	<p>Fractions Wk 1-2</p> <ol style="list-style-type: none"> Equivalent fractions (1) Equivalent fractions (2) Equivalent fractions (3) Compare fractions Order fractions Add fractions Subtract fractions <p>Money Wk 3-4</p> <ol style="list-style-type: none"> Pounds and pence Convert pounds and pence Add money Subtract money Give change <p>Time Wk 5-7</p> <ol style="list-style-type: none"> Months and years Days and hours Telling the time to 5 minutes Telling the time to 1 minute AM and PM 24 hour clock Finding the duration Comparing durations Start and end times Measuring time in seconds <p>Shape Wk 8-9</p> <ol style="list-style-type: none"> Turns and angles Right angles in shapes Compare angles Draw accurately Horizontal and vertical lines Parallel and perpendicular lines Recognise and describe 2D shapes Recognise and describe 3D shapes Construct 3D shapes <p>Statistics</p> <ol style="list-style-type: none"> Pictograms Bar charts Tables <p>Consolidation</p>
<p>Place Value</p> <ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000. Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100 <p>Addition & Subtraction</p> <ul style="list-style-type: none"> Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens, a three digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <p>Multiplication & Division</p> <ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 and 100. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives. 	<p>Multiplication & Division</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives. <p>Measurement-Length and Perimeter</p> <ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2D shapes. <p>Fractions</p> <ul style="list-style-type: none"> Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators. Recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators. Solve problems that involve all of the above. <p>Measurement-Mass & Capacity</p> <ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). 	<p>Measurement- Money</p> <ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts. <p>Statistics</p> <ul style="list-style-type: none"> Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. <p>Fractions</p> <ul style="list-style-type: none"> Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [for example, $\frac{3}{7} + \frac{1}{7} = \frac{4}{7}$]. Solve problems that involve all of the above. <p>Measurement- Time</p> <ul style="list-style-type: none"> Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12-hour and 24-hour clocks. Estimate and read time with increasing accuracy to the nearest minute. Record and compare time in terms of seconds, minutes and hours. Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number of days in each month, year and leap year. Compare durations of events [for example to calculate the time taken by particular events or tasks]. <p>Shape</p> <ul style="list-style-type: none"> Recognise angles as a property of shape or a description of a turn. Identify right angles, recognise that two right angles make a halfturn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.

		<ul style="list-style-type: none">• Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.• Draw 2-D shapes and make 3-D shapes using modelling materials.• Recognise 3-D shapes in different orientations and describe them.
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Year 4 Autumn	Spring	Summer
<p>Place Value Wk 1-4</p> <ol style="list-style-type: none"> Rounding to the nearest 10/100 Count in 1000s 1000s, 100s, 10s and 1s Partitioning 4-digit numbers Number line to 10,000 1000 more/ 1000 less Compare 4-digit numbers Order 4-digit numbers Round to 1,000 Count in 25s Negative numbers Roman numerals (100) <p>Addition and Subtraction Wk 5-7</p> <ol style="list-style-type: none"> Add and subtract 1s, 10s, 100s, 1000s Add two 4-digit numbers with no exchange Add two 4-digit numbers with 1 exchange Add two 4-digit numbers with more than 1 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 Wk8</p> <ol style="list-style-type: none"> What is area? Area (counting squares) Area (making shapes) Area (comparing shapes) <p>Multiplication and division Wk9-11</p> <ol style="list-style-type: none"> Multiplying by 10 Multiplying by 100 Dividing by 10 Dividing by 100 Multiply by 1 and 0 Divide by 1 and itself Multiply and divide by 6 6 times table and division facts Multiply and divide by 9 9 times table and division facts Multiply and divide by 7 7 times table and division facts <p>Consolidation Wk12</p>	<p>Multiplication and division Wk1-3</p> <ol style="list-style-type: none"> 11 times table 12 times table Multiply three numbers Factor pairs Efficient multiplication Multiplication written methods Multiply 2 digits by 1 digit Multiply 3 digits by 1 digit Divide 2 digits by 1 digit Divide 2 digits by 1 digit (remainders) Divide 3 digits by 1 digit Correspondence problems <p>Length and perimeter Wk4-5</p> <ol style="list-style-type: none"> Kilometres Perimeter on a grid Perimeter of a rectangle Perimeter of a rectilinear shapes <p>Fractions Wk6-9</p> <ol style="list-style-type: none"> What is a fraction? Equivalent fractions Equivalent fractions 2 Fractions greater than 1 Count in fractions Add two or more fractions Subtract two fractions Subtract from whole numbers Fractions of a quantity Calculate fractions Recognise tenths and hundredths <p>Decimals Wk10-12</p> <ol style="list-style-type: none"> 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 Hundredths as decimals Hundredths on a place value grid Divide 1 or 2 digits by 100. 	<p>Decimals Wk1-2</p> <ol style="list-style-type: none"> Making a whole Write decimals Compare decimals Order decimals Rounding decimals Halves and quarters as decimals <p>Money Wk3-4</p> <ol style="list-style-type: none"> Pounds and pence Ordering money Estimating money Four operations with money <p>Time Wk5-6</p> <ol style="list-style-type: none"> Hours, minutes, and seconds Years, months, weeks, and days Analogue to digital 12 hour Analogue to digital to 24 hours <p>Consolidation</p> <p>Shape Wk8-9</p> <ol style="list-style-type: none"> Identifying angles Compare and order angles Triangles Quadrilaterals Lines of symmetry Complete a symmetrical figure <p>Statistics</p> <ol style="list-style-type: none"> Interpret charts Comparison, Sum and difference Introducing line graphs Line graphs <p>Position and direction Wk 11-12</p> <ol style="list-style-type: none"> Describe position on a grid Draw coordinates on a grid Move on a grid Describe movement
<p>Place Value</p> <ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones). Order and compare numbers beyond 1000. Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000. • Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. <p>Addition and subtraction</p> <ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. • Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why. <p>Area</p> <ul style="list-style-type: none"> Find the area of rectilinear shapes by counting squares. <p>Multiplication and Division</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for multiplication tables up to 12×12. Count in multiples of 6, 7, 9, 25 and 1000. Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 	<p>Multiplication and Division</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for multiplication tables up to 12×12. Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. <p>Length and perimeter</p> <ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Convert between different units of measure [for example, kilometre to metre]. <p>Fractions</p> <ul style="list-style-type: none"> Recognise and show, using diagrams, families of common equivalent fractions. Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. Add and subtract fractions with the same denominator. <p>Decimals</p> <ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. Solve simple measure and money problems involving fractions and decimals to two decimal places. Convert between different units of measure [for example, kilometre to metre]. 	<p>Decimals</p> <ul style="list-style-type: none"> Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. <p>Money</p> <ul style="list-style-type: none"> Estimate, compare and calculate different measures, including money in pounds and pence. Solve simple measure and money problems involving fractions and decimals to two decimal places. <p>Time</p> <ul style="list-style-type: none"> Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. <p>Statistics</p> <ul style="list-style-type: none"> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. <p>Position and Direction</p> <ul style="list-style-type: none"> Identify acute and obtuse angles and compare and order angles up to two right angles by size. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry. Describe positions on a 2- D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon. Describe movements between positions as translations of a given unit to the left/ right and up/ down.

Year 5 Autumn	Spring	Summer
<p>Place Value Wk 1-3</p> <ol style="list-style-type: none"> Place value to 10,000 Rounding to 10,100, 1000 Place value to 100,000 Compare and order numbers to 100,000 Round within 100,000 Number to 1 million Counting in powers of 10 Compare and order numbers to 1,000,000 Rounding to 1,000,000 Negative numbers Roman numerals (1000) <p>Addition and Subtraction Wk 4-5</p> <ol style="list-style-type: none"> Column addition more than 4 digits Column subtraction more than 4 digits Round to estimate and approximate Inverse operations Multi-step problems <p>Multiplication and division Wk 6-8</p> <ol style="list-style-type: none"> Multiples Factors Common Factors Prime numbers Square numbers Cube numbers Multiply by 10, 100 and 1000 Dividing by 10, 100 and 1000 Multiples of 10, 100 and 1000 <p>Fractions WK 9-12</p> <ol style="list-style-type: none"> Equivalent fractions Improper fractions to mixed numbers Mixed numbers to improper fractions Number sequences (fractions) Compare and order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions (same denominator) Add fractions within 1 Add three or more fractions Add fractions Add mixed numbers Subtract fractions Subtract mixed numbers Breaking the whole Subtract two mixed numbers 	<p>Multiplication & Division Wk 1-3</p> <ol style="list-style-type: none"> Multiply 4-digits by 1-digit Multiply 2-digits by 2 digits (area model) Multiply 2-digits by 2-digits Multiply 3-digits by 2-digits Multiply 4-digits by 2-digits Divide 4-digits by 1-digit Division with remainders <p>Fractions Wk 4-5</p> <ol style="list-style-type: none"> Multiplying unit fractions by an integer Multiply non-unit fractions by an integer Multiply mixed numbers by an integer Fraction of an amount Fractions as operations <p>Decimals & Percentages Wk 6-8</p> <ol style="list-style-type: none"> Numbers to two decimal places Decimals as fractions 1 Decimals as fractions 2 Understand Thousandths Thousandths as decimals Rounding decimals Order and compare decimals Understand percentages Percentages as fractions and decimals Equivalent F.D.P <p>Perimeter & Area Wk 9-10</p> <ol style="list-style-type: none"> Measure perimeter Calculating perimeter Area of rectangles Area of compound shapes Area of irregular shapes <p>Statistics</p> <ol style="list-style-type: none"> Read and interpret line graphs Draw line graphs Solving problems with line graphs Read and interpret tables Two-way tables 	<p>Shape Wk 1-3</p> <ol style="list-style-type: none"> Measuring angles in degrees Measuring acute angles Measuring obtuse angles Drawing lines and angles accurately Angles on a straight line Angles around a point Lengths and angles in shapes Regular and irregular polygons Reasoning about 3D shapes <p>Position and direction Wk 4-5</p> <ol style="list-style-type: none"> Position in the first quadrant Translation Translation with coordinates Reflection (shape) Reflection with coordinates <p>Decimals Wk 6-8</p> <ol style="list-style-type: none"> Adding decimals within 1 Subtracting decimals within 1 Complements to 1 Adding decimals across the whole Adding decimals (same decimal place) Subtract decimals (same decimal places) Adding decimals (different decimal places) Subtract decimals (different decimal places) Adding and subtracting wholes and decimals Decimal sequences Multiplying decimals by 10, 100 and 1000. Dividing decimals by 10, 100 and 1000 <p>Converting Units Wk 9-10</p> <ol style="list-style-type: none"> Kilograms and kilometres Millimetres and millilitres Metric Units Imperial Units Converting units of time <p>Volume Wk 11</p> <ol style="list-style-type: none"> What is volume? Compare volume? Estimate volume Estimate capacity
<p>Place Value</p> <ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1000000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1000000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000. Solve number problems and practical problems that involve all of the above. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers. Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. <p>Multiplication and Division</p> <ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19. Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. Multiply and divide numbers mentally, drawing upon known facts. Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000. Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³). Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. <p>Fractions</p> <ul style="list-style-type: none"> Compare and order fractions whose denominators are multiples of the same number. Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example $\frac{7}{5} = 1\frac{2}{5}$]. Add and subtract fractions with the same denominator and denominators that are multiples of the same number. 	<p>Multiply and Division</p> <ul style="list-style-type: none"> Multiply and divide numbers mentally drawing upon known facts. Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers. Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context. Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign. <p>Decimals and percentages</p> <ul style="list-style-type: none"> Read, write, order and compare numbers with up to three decimal places. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Round decimals with two decimal places to the nearest whole number and to one decimal place. Solve problems involving number up to three decimal places. Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal. Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{5}$, $\frac{2}{5}$ and those fractions with a denominator of a multiple of 10 or 25. <p>Perimeter and Area</p> <ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm²) and square metres (m²), and estimate the area of irregular shapes. <p>Statistics</p> <ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in tables including timetables. 	<p>Shape</p> <ul style="list-style-type: none"> Identify 3D shapes, including cubes and other cuboids, from 2D representations. Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees. Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90° <p>Position and Direction</p> <ul style="list-style-type: none"> Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. <p>Decimals</p> <ul style="list-style-type: none"> Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. <p>Converting Units</p> <ul style="list-style-type: none"> Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; l and ml]. Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Solve problems involving converting between units of time. Estimate volume [for example using 1cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]. Use all four operations to solve problems involving measure.

<ul style="list-style-type: none"> • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. • Read and write decimal numbers as fractions [for example $0.71 = \frac{71}{100}$]. • Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. 		
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Year 6 Autumn	Spring	Summer
<p>Place Value Wk 1-2</p> <ol style="list-style-type: none"> 1. Numbers to 10 million 2. Compare and order any number 3. Rounding any whole number 4. Negative numbers <p>Addition, subtraction, multiplication and division Wk 3-7</p> <ol style="list-style-type: none"> 5. Add and subtract integers 6. Multiply up to 4 digits by 2 digits 7. Short division 8. Division using factors 9. Long division 1 10. Long division 2 11. Long division 3 12. Long division 4 13. Common factors 14. Common multiples 15. Prime numbers to 100 16. Square and cube numbers 17. Order of operations 18. Mental calculations 19. Reason from known facts <p>Fractions Wk 8-9</p> <ol style="list-style-type: none"> 20. Simplify fractions 21. Fractions on a number line 22. Compare and order fractions (Denominators) 23. Compare and order fractions (Numerators) 24. Add and subtract fractions 1 25. Add and subtract fractions 2 26. Add fractions 27. Subtract fractions <p>Fractions Wk 10-11</p> <ol style="list-style-type: none"> 28. Multiply fractions by integers 29. Multiply fractions by fractions 30. Divide fractions by integers 1 31. Divide fractions by integers 2 32. Four rules with fractions 33. Fraction of an amount 34. Finding the whole <p>Converting units Wk12</p> <ol style="list-style-type: none"> 64. Metric measures 65. Converting metric measures 66. Calculating metric measures 67. Miles and kilometres 68. Imperial measures 	<p>Ratio Wk1-2</p> <ol style="list-style-type: none"> 77. Using ration language 78. Ratio and fractions 79. Introducing the ratio symbol 80. Calculating ratio 81. Using scale factors 82. Calculating scale factors 83. Ratio and proportion problems <p>Algebra Wk 3-4</p> <ol style="list-style-type: none"> 54. Find a rule 1 55. Find a rule 2 56. Forming expressions 57. Substitution 58. Formulae 59. Forming Equations 60. One step Equations 61. Two step Equations 62. Find pairs of values 1 63. Find pairs of values 2 <p>Decimals Wk 5-6</p> <ol style="list-style-type: none"> 39. Three place decimals 40. Multiply by 10, 100, 1000 41. Divide by 10, 100, 1000 42. Multiply decimals by integers 43. Divide decimals by integers 44. Division to solve problems <p>Fractions, decimals and percentages Wk 7-8</p> <ol style="list-style-type: none"> 45. Decimals as fractions 46. Fractions to decimals 1 47. Fractions to decimals 2 48. Fractions to percentages 49. Equivalent Fractions, decimals and percentages 50. Order fractions, decimals and percentages 51. Percentage of amounts 1 52. Percentage of amounts 2 53. Percentages missing values <p>Area, perimeter and volume Wk 9-10</p> <ol style="list-style-type: none"> 69. Shape: same area 70. Area and perimeter 71. Area of triangles 1 72. Area of triangles 2 73. Area of triangles 3 74. Area of parallelograms 75. Volume by counting cubes 76. Volume of a cuboid <p>Statistics</p> <ol style="list-style-type: none"> 84. Read and interpret line graphs 85. Draw line graphs 86. Line graphs problems 87. Circles 88. Read and interpret pie charts 89. Pie charts with percentages 90. Draw pie charts 91. The mean 	<p>Shape Wk 1-3</p> <ol style="list-style-type: none"> 92. Measure with a protractor 93. Introduce angles 94. Calculate angles 95. Vertically opposite angles 96. Angles in a triangle 97. Angles in isosceles triangles 98. Using triangle angles knowledge 99. Angles in quadrilaterals 100. Angles in regular polygons 101. Drawing shapes accurately 102. Nets of 3D shapes <p>Position and direction Wk 4</p> <ol style="list-style-type: none"> 35. The first quadrant 36. Four quadrants 37. Translations 38. Reflections <p>Themed projects, consolidation and problem solving</p>
<p>Place Value</p> <ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. • Round any whole number to a required degree of accuracy. • Use negative numbers in context and calculate intervals across zero. • Solve number and practical problems that involve all of the above. <p>Addition, Subtraction, Multiplication and Division</p> <ul style="list-style-type: none"> • Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why. • Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication. • Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context. • Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context. • Perform mental calculations, including with mixed operations and large numbers. • Identify common factors, common multiples and prime numbers. • Use their knowledge of the order of operations to carry out calculations involving the four operations. 	<p>Ratio</p> <ul style="list-style-type: none"> • Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. • Solve problems involving similar shapes where the scale factor is known or can be found. • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. <p>Algebra</p> <ul style="list-style-type: none"> • Use simple formulae. • Generate and describe linear number sequences. • Express missing number problems algebraically. • Find pairs of numbers that satisfy an equation with two unknowns. • Enumerate possibilities of combinations of two variables. <p>Decimals</p> <ul style="list-style-type: none"> • Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. • Multiply one-digit numbers with up to 2 decimal places by whole numbers. • Use written division methods in cases where the answer has up to 2 decimal places. • Solve problems which require answers to be rounded to specified degrees of accuracy <p>Fraction, Decimals and Percentages</p>	<p>Properties of Shape</p> <ul style="list-style-type: none"> • Draw 2-D shapes using given dimensions and angles. • Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. <p>Position and Direction</p> <ul style="list-style-type: none"> • Describe positions on the full coordinate grid (all four quadrants). • Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

<ul style="list-style-type: none"> • Solve problems involving addition, subtraction, multiplication and division. • Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy. <p>Fractions</p> <ul style="list-style-type: none"> • Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. • Compare and order fractions, including fractions >1. • Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. • Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$). • Divide proper fractions by whole numbers (e.g. $1/3 \div 2 = 1/6$). • Associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $3/8$). • Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places. • Multiply one digit numbers with up to two decimal places by whole numbers. • Use written division methods in cases where the answer has up to two decimal places. • Solve problems which require answers to be rounded to specified degrees of accuracy. • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. <p>Converting Units</p> <ul style="list-style-type: none"> • Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 d.p. • Convert between miles and kilometres. 	<ul style="list-style-type: none"> • Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison. • Recall and use equivalences between simple fractions, decimals and percentages including in different contexts. <p>Area, Perimeter and volume</p> <ul style="list-style-type: none"> • Recognise that shapes with the same areas can have different perimeters and vice versa. • Recognise when it is possible to use formulae for area and volume of shapes. • Calculate the area of parallelograms and triangles. • Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm^3, m^3 and extending to other units (mm^3, km^3). <p>Statistics</p> <ul style="list-style-type: none"> • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. • Interpret and construct pie charts and line graphs and use these to solve problems. • Calculate the mean as an average. 	
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