

Year 3/4	<p>To be embedded throughout the year:</p> <ul style="list-style-type: none"> • Place Value to solve number problems up to and over 1000 • Counting in a variety of steps • Use of all four operations in a range of different contexts • Securing an understanding of fractions/ decimals • Recall of times table facts for 2,3,4,5,8,10 (Yr 3) All tables to 12 x 12 (Yr 4) 		
	<ul style="list-style-type: none"> • Counting from 0 in multiples of 4,6,7,8,9,25,50, 100,1000 Count backwards through 0 using negative numbers • Read/Write numerals to 1000 in words/ numbers • Recognise/ Place value of HTU/ ThHTU • Order/ compare numbers up to and then over 1000 • Rounding numbers to nearest 10/ 100 • Solve number problems inc missing numbers in a sequence, place value and number facts • Identify/ represent and estimate numbers using different representations (6=2+2+2/ 6=3 x 2 - reason and use of inverse) • Find 10, 100, 1000 more or less than a given number • Start from adding/ taking away 	<ul style="list-style-type: none"> • Round any number to the nearest 10, 100 or 1000 • Count up and down in 1/10 and 1/100, recognising its value and how $1/10 \div 10 = 1/100$ • Measure, compare add and subtract length (cm/mm/m) • Solve simple measure and money problems using fractions (4 operations) • Recognise common equivalent fractions using pictorial representation Comparing and order fractions with same denominator • Using unit (1/5) and non-unit fractions (2/5) to find quantities of an integer. Add/ subtract fractions with the same denominator • Compare and classify geometric shapes including quadrilaterals and triangles based on 	<ul style="list-style-type: none"> • Add ThHTU and up to ThHTU progressing to formal written method • Subtract ThHTU and up to ThHTU progressing to formal written method • Begin to solve problems involving ratio, fractions and proportion (Scaling up/ relationships/ different representations) including all possibility problems. • Conversion of units of measures (Money/ kilometres-metres/ hours-minutes etc) Measure, compare, add and subtract mass/ volume/ capacity (kg/g) • Calculate perimeter of a rectilinear/ 2D shape in cm/m moving towards algebraic representation [2(a+b)] • Find area of rectilinear shapes by counting squares

	<p>HTU+/- U/ HTU +/- TU/ HTU +/- 100, to then adding/ taking away ThHTU and up to ThHTU progressing to formal written methods</p> <ul style="list-style-type: none"> Recognise and use fractions as numbers ($\frac{1}{2}$ of 20 etc) - informal methods of division 	<p>properties and sizes. Understand that angles are a property of a shape/ description of a turn</p> <p>Identify lines of symmetry in 2D shapes presented in different orientations, moving to 3D. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p>	<ul style="list-style-type: none"> Identify right angles, acute and obtuse angles Compare/ order angles up to 180' Complete a simple symmetric figure with respect to a single line of symmetry
	<ul style="list-style-type: none"> Multiplying, use of grid method moving to using formal written method - HTU x U Use place value to multiply/ divide mentally (initially within times tables) and also progressing to a written method. Recognise and use factors - focus on use of inverse Multiplying/ Dividing by 0 and 1 Solving 2 step problems in a context and explain reasoning Recall ALL multiplication tables up to 12 x 12 (YR 4) Read roman numerals from 1 to 100 and know that over time the numeral system changed to include 0 and place value 	<ul style="list-style-type: none"> Multiplying 3 numbers together Estimate and use inverse as a tool for checking Problems involving multiplying and adding (brackets) TU x U Write decimal equivalents of any number of tenths or hundredths Solve simple measure and money problems using decimals to 2dp (4 operations) Recognise and write decimal equivalents of $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ Dividing TU/U by 10 and 100 and understanding the place value Rounding numbers with 1 decimal place to a whole number Compare and order decimals to 2 dp Interpret and present data 	<ul style="list-style-type: none"> Describe positions on a grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit. Use and plot coordinates (ICT Link) Interpret discrete and continuous data using appropriate graphical methods including bar charts, pictograms and time graphs Solve one and two step problems about presented information Solving comparison, sum and difference problems using information presented in bar charts, pictograms, tables and

	<ul style="list-style-type: none"> • Telling/ writing the time including XII/12 hr/ 24 hr and to 1 minute intervals • Read, write and convert time between analogue (initially) and then digital 12 and 24 hour clocks, use of language for am/pm/ minutes/ seconds/ hours/ noon/ midnight • Solve problems involving converting from hours to minutes, minutes to seconds, years to months, week to days • Draw 2D shapes/ make 3D shapes using modelling materials. Recognise, name and describe shapes 	<p>using bar charts, pictograms and tables</p> <p>Interpret discrete and continuous data using appropriate graphical methods including bar charts and time graphs</p> <p>Solve one and two step problems about presented information</p> <ul style="list-style-type: none"> • Solving comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 	<p>other graphs</p> <ul style="list-style-type: none"> • Estimate, compare and calculate different measures (inc money in £ and P) • Fractions/ decimals and solve problems using these • Work on all 4 operations in a real context with formal written methods.
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