

Year 2 - Yearly Objectives

<u>Times Tables</u>	<u>Number</u> Number and Place Value	<u>Number</u> Addition and Subtraction	<u>Number</u> Multiplication and Division	<u>Number</u> Fractions
<ul style="list-style-type: none"> • Count in 3's from zero. • Recall and use multiplication facts for 2, 5, 10 times table. • Recall and use division facts for 2, 5 and 10 times table. 	<ul style="list-style-type: none"> • Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward. • 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). • Can partition a number to add using bonds to 10 - $8+7 = 8+5+2$. • Partition numbers in different ways (for example, $23 = 20 + 3$ and $23 = 10 + 13$). • Identify, represent and estimate numbers using different representations, including the number line. • Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs. • Find 1 or 10 more or less than a given number. • Round numbers to at least 100 to the nearest 10. • Understand the connection between the 10 multiplication table and place value. • Count in 10's from any number including crossing boundaries into hundreds. • Describe and extend simple sequences involving counting on or back in different steps. • Use place value and number facts to solve problems 	<ul style="list-style-type: none"> • Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting). • Select a mental strategy appropriate for the numbers involved in the calculation. • Understand subtraction as take away and difference (how many more, how many less/fewer). • 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: <ul style="list-style-type: none"> ▪ a two-digit number and ones. ▪ a two-digit number and tens. ▪ 2 two-digit numbers. ▪ adding 3 one-digit numbers. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. • To add 10 / 100 to any number and add in multiples of 10. • Use related facts to subtract multiples of 10 and $100 - 6-4=2$ / $60-20=40$ • Subtract more efficiently using a number line with jumps of multiples of 10 with numbers up to 3 digits. • Partition 2 and 3 digit numbers and add vertically using base 10 or practical resources without crossing boundaries. 	<ul style="list-style-type: none"> • Understand multiplication as repeated addition. • Understand division as sharing and grouping and that a division calculation can have a remainder. • Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. • Derive and use doubles of simple two-digit numbers (numbers in which the ones total less than 10). • Derive and use halves of simple two-digit even numbers (numbers in which the tens are even). • Calculate mathematical statements for multiplication (using repeated addition) and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs. 	<ul style="list-style-type: none"> • Understand and use the terms numerator and denominator. • Understand that a fraction can describe part of a set • Understand that the larger the denominator is, the more pieces it is split into and therefore the smaller each part will be. • Recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ of a length, shape, set of objects or quantity. • Count on and back in steps of $1/2$ and $1/4$ up to 10 recognising that fractions are numbers between whole numbers. • Write simple fractions for example, $1/2$ of $6 = 3$ and recognise the equivalence of $2/4$ and $1/2$.

<u>Measurement</u>	<u>Geometry</u> Properties of shape	<u>Geometry</u> Position and direction	<u>Statistics</u>	<u>Problem Solving</u>
<ul style="list-style-type: none"> • Choose and use appropriate standard units to estimate and measure: <ul style="list-style-type: none"> • length/height in any direction (m/cm) • mass (kg/g) • capacity and volume (litres/ml) • temperature to the nearest degree (°C) • Compare and order lengths, mass, volume/capacity and record the results using >, < and =. • Recognise and use symbols for pounds (£) and pence (p). • Find different combinations of coins that equal the same amounts of money. • Combine amounts to make a particular value. • Compare and sequence intervals of time. • 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. 	<ul style="list-style-type: none"> • Identify and describe the properties of 2-D shapes, naming, talking about the number of sides and showing vertical lines of symmetry. • Identify 2-D shapes on the surface of 3-D shapes, (for example, a circle on a cylinder and a triangle on a pyramid) • Identify and describe and sort 3-D shapes, including the number of edges, vertices and faces. • Compare and sort common 2D and 3D shapes and everyday objects. 	<ul style="list-style-type: none"> • Order and arrange combinations of mathematical objects in patterns and sequences. • Use mathematical vocabulary to describe position, movement, including movement in a straight line. • To distinguish between rotation as a turn in terms of right angles for quarter, half and three quarter turns. (clockwise and anti-clockwise) 	<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. 	<ul style="list-style-type: none"> • Solve missing number problems for addition and subtraction with numbers up to 20. • Solve simple word problems involving addition and subtraction with numbers up to 50. • Solve multiplication and division problems using pictures and diagrams. • To use place value and number facts to solve problems. • Solve simple money problems involving addition, subtraction and finding change. • Solve problems involving multiplication and division (including those with remainders), using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. • Solve simple problems in a practical context involving addition and subtraction of measures (including time).