

# Term by Term Objectives

# Year 1/2

Year Group	Y1/2			Term	Autumn									
<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>	<b>Week 5</b>	<b>Week 6</b>	<b>Week 7</b>	<b>Week 8</b>	<b>Week 9</b>	<b>Week 10</b>	<b>Week 11</b>	<b>Week 12</b>			
<b>Place Value</b> Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number. Count in multiples of twos. <b>Count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward.</b>			<b>Addition and Subtraction</b> Represent and use number bonds and related subtraction facts (within 10) <b>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</b> Add and subtract one digit numbers (to 10), including zero. <b>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.</b>			<b>Place Value</b> Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number. Count, read and write numbers from 1 to 20 in numerals and words. 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. <b>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.</b> <b>Recognise the place value of each digit in a two digit number (tens, ones)</b>			<b>Addition and Subtraction</b> Represent and use number bonds and related subtraction facts within 20. Add and subtract one digit and two digit numbers to 20, including zero. Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$ <b>Multiplication and Division</b> 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.			<b>Geometry: Shape</b> Recognise and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres. <b>Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.</b> Compare and sort common 2D shapes and everyday objects. <b>Order and arrange combinations of mathematical objects in patterns and sequences.</b> Describe position, direction and movement, including whole, half, quarter and three quarter turns. 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 anti-clockwise)		
<b>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.</b> <b>Identify, represent and estimate numbers to 100 using different representations including the number line.</b> Given a number, identify one more or one less. <b>Compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs.</b> <b>Use place value and number facts to solve problems.</b>			Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems. 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. Show that the 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.			Count in multiples of twos and fives <b>Year 2, revisit weeks 1 – 3.</b>								

# Term by Term Objectives

# Year 3/4

Year Group	Y3/4			Term	Autumn							
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
<b>Place Value</b> Read and write numbers up to 1000 in numerals and in words. Identify, represent and estimate numbers up to 1000 using different representations. <b>Identify, represent and estimate numbers using different representations.</b> Find 10 or 100 more or less than a given number. <b>Find 1000 more or less than a given number.</b>				<b>Number: Addition and Subtraction</b> 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 <b>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</b>							<b>Multiplication and Division</b> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. <b>Recall and use multiplication and division facts for multiplication tables up to 12 x 12.</b>	
Recognise the place value of each digit in a 3 digit number. <b>Recognise the place value of each digit in a 4 digit number.</b> Order and compare numbers to 1000. <b>Order and compare numbers beyond 1000.</b> Count from 0 in multiples of 4, 8, 50 and 100 <b>Count in multiples of 6, 7, 9, 25 and 1000</b>				Estimate the answer to a calculation and use inverse operations to check answers. <b>Estimate and use inverse operations to check answers to a calculation.</b> Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <b>Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.</b> Add and subtract amounts of money to give change using both £ and p in practical contexts. <b>Estimate, compare and calculate different measures, including money in pounds and pence</b>							Write and calculate mathematical statements for multiplication and division using the multiplication tables they know. <b>Recognise and use factor pairs and commutativity in mental calculations.</b> 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 number problems and practical problems involving these ideas. <b>Solve number and practical problems that involve all of the above and with increasingly large positive numbers.</b> Count backwards through zero to include negative numbers. <b>Round any number to the nearest 10, 100 or 1000</b>				Measure, compare, add and subtract: lengths (mm, cm, m); mass (kg/g); volume/capacity (l/ml). <b>Solve simple measure and money problems involving fractions and decimals to two decimal places.</b>								
Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.												

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[mathshub@trinityacademyhalifax.org](mailto:mathshub@trinityacademyhalifax.org)

# Term by Term Objectives

# Year 5 / 6

Year	5 and 6				Term	Autumn					
<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>	<b>Week 5</b>	<b>Week 6</b>	<b>Week 7</b>	<b>Week 8</b>	<b>Week 9</b>	<b>Week 10</b>	<b>Week 11</b>	<b>Week 12</b>
<p><b>Number: Place Value</b> Read, write, order and compare numbers to at least 1000000 and determine the value of each digit. <b>Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.</b></p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1000000.</p> <p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. <b>Use negative numbers in context, and calculate intervals across zero.</b></p> <p>Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000 <b>Round any whole number to a required degree of accuracy.</b></p> <p>Solve number problems and practical problems that involve all of the above. <b>Solve number and practical problems that involve all of the above.</b></p> <p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p> <p>Read, write, order and compare numbers with up to three decimal places. <b>Identify the value of each digit in numbers given to three decimal places and multiply numbers by 10, 100 and 1000 giving answers up to 3dp.</b></p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place.</p> <p>Solve problems involving number up to three decimal places. <b>Solve problems which require answers to be rounded to specified degrees of accuracy.</b></p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p>				<p><b>Number- addition subtraction, multiplication + division</b> Add and subtract numbers mentally with increasingly large numbers. <b>Perform mental calculations, including with mixed operations and large numbers.</b> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. <b>Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.</b></p> <p>Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why. <b>Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.</b></p> <p>Multiply and divide numbers mentally drawing upon known facts. Multiply and divide whole numbers by 10, 100 and 1000. 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. <b>Multiply multi-digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication.</b></p> <p>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. <b>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.</b></p> <p>Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division, interpreting remainders according to context.</p> <p>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. <b>Identify common factors, common multiples and prime numbers.</b></p> <p>Recognise and use square numbers and cube numbers and the notation for squared (<sup>2</sup>) and cubed (<sup>3</sup>) Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign. <b>Solve problems involving addition, subtraction, multiplication and division.</b> <b>Use their knowledge of the order of operations to carry out calculations involving the four operations.</b></p>				<p><b>Number- Prime Numbers</b> Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p>		<p><b>Statistics</b> Solve comparison, sum and difference problems using information presented in a line graph. <b>Interpret and construct pie charts and line graphs and use these to solve problems</b></p> <p>Complete, read and interpret information in tables including timetables. <b>Calculate the mean as an average.</b></p>	

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[mathshub@trinityacademyhalifax.org](mailto:mathshub@trinityacademyhalifax.org)