



## Year 4 Learning Objectives in Mathematics

<b>Year 4</b>		
<u>Autumn Term</u>	<u>Spring Term</u>	<u>Summer Term</u>
<b>Recall multiplication and division facts for multiplication tables up to 12 × 12</b>		
<p><b><u>Number and Place Value</u></b>            *Count in multiples of 6, 9, 25 and 1000.            *Find 1000 more or less than a given number.            *Count backwards through zero to include negative numbers.            *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.            *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.</p> <p><b><u>Number - Addition and Subtraction</u></b>            *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>	<p><b><u>Number and Place Value</u></b>            *Count in multiples of 7</p> <p><b><u>Number - Multiplication and Division</u></b>            *Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.            *Use place value, known and derived facts to multiply and divide mentally.            * 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> <p><b><u>Measurement</u></b>            *Find the area of rectilinear shapes by counting squares.</p> <p><b><u>Numbers - Fractions (including decimals)</u></b>            *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.</p>	<p><b><u>Measurement</u></b>            *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.            *Convert between different units of measure [for example, kilometre to metre; hour to minute].            *Estimate, compare and calculate different measures, including money in pounds and pence .</p> <p><i>*Consolidation of problem solving (involving fractions, money and the 4 operations).</i></p>



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### **Number - Multiplication and Division**

\*Use place value, known and derived facts to multiply mentally, including multiplying by 0 and 1.

\*Recognise and use factor pairs and commutativity in mental calculations.

*\*Revise / consolidate efficient mental methods from Year 3 (including associativity and commutativity).*

### **Measurement**

\*Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.

\*Add and subtract fractions with the same denominator.

\*Recognise and write decimal equivalents of any number of tenths or hundredths.

\*Recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$

\*Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.

\*Round decimals with one decimal place to the nearest whole number.

\*Compare numbers with the same number of decimal places up to two decimal places.

\*Solve simple measure and money problems involving fractions and decimals to two decimal places.