



# BRACKENWOOD JUNIOR SCHOOL

## Year 4 Mathematics Curriculum Overview 2020

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions, Decimals, Percentages and Ratio
<p><b>I know that 10 hundreds are equivalent to 1000 and that 1000 is ten times the size of one hundred. I can work out how many hundreds there are in four digit multiples of 100. (KPI1)</b></p> <p><b>I can count in multiples of 6, 7, 9, 25 and 1000 (KPI2)</b></p> <p><b>I can find 1000 more or less than a given number (KPI3)</b></p> <p>I can count backwards through zero to include negative numbers</p> <p><b>I can recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (KPI4)</b></p> <p><b>I can compose and decompose four digit numbers using standard and non-standard partitioning. (KPI5)</b></p> <p><b>I can order and compare numbers beyond 1000 (KPI6)</b></p> <p><b>I can round any number to the nearest 10, 100 or 1000 (KPI7)</b></p> <p>I can solve number and practical problems that involve all of the above and with increasingly large positive numbers</p> <p>I can 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>I can calculate complements to 1000</p> <p>I can mentally add any two digit numbers</p> <p>I can mentally subtract any two digit numbers</p> <p><b>I can add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate (KPI8)</b></p> <p>I can estimate and use inverse operations to check answers to a calculation</p> <p>I can solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</p>	<p><b>I can divide 1000 into 2,4,5 and 10 equal parts. (KPI9)</b></p> <p><b>I can recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math> (KPI0)</b></p> <p><b>I can multiply and divide one and two digit whole numbers by ten and hundred (KPI11)</b></p> <p>I can 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</p> <p>I can recognise and use factor pairs and commutativity in mental calculations</p> <p><b>I can multiply two-digit and three-digit numbers by a one-digit number using formal written layout (KPI12)</b></p> <p><b>I can 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. (KPI13)</b></p>	<p><b>I can recognise and show, using diagrams, families of common equivalent fractions (KPI14)</b></p> <p>I can count up and down in hundredths;</p> <p><b>I can recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. (KPI5)</b></p> <p>I can 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>I can add and subtract fractions, including improper fractions, with the same denominator (KPI16)</b></p> <p><b>I can recognise and write decimal equivalents of any number of tenths or hundredths (KPI17)</b></p> <p><b>I can recognise and write decimal equivalents to one quarter, one half and three quarters (KPI18)</b></p> <p>I can 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</p> <p>I can round decimals with one decimal place to the nearest whole number</p> <p>I can compare numbers with the same number of decimal places up to two decimal places</p> <p>I can solve simple measure and money problems involving fractions and decimals to two decimal places.</p>

Measurement	Shapes- Geometry	Shapes- Position and Direction	Statistics
<p><b>I can convert between different units of measure [for example, kilometre to metre; hour to minute] (KPI19)</b></p> <p>I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p> <p><b>I can find the area of rectilinear shapes by counting squares (KPI20)</b></p> <p>I can estimate, compare and calculate different measures, including money in pounds and pence</p>	<p><b>I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes (KPI21)</b></p> <p><b>I can identify acute and obtuse angles and compare and order angles up to two right angles by size (KPI22)</b></p> <p><b>I can identify lines of symmetry in 2-D shapes presented in different orientations (KPI23)</b></p> <p>I can complete a simple symmetric figure with respect to a specific line of symmetry.</p>	<p>I can describe positions on a 2-D grid as coordinates in the first quadrant</p> <p><b>I can describe movements between positions as translations of a given unit to the left/right and up/down (KPI24)</b></p> <p>I can plot specified points and draw sides to complete a given polygon.</p>	<p>I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</p> <p><b>I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. (KPI25)</b></p>

