



Maths Calculation Guidance

	EYFS/Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition	<p>Combining two parts to make a whole: part whole model. Starting at the bigger number and counting on- using cubes. Regrouping to make 10 using ten frame.</p>	<p>Adding three single digits. Use of base 10 to combine two numbers.</p>	<p>Column method- regrouping. Using place value counters (up to 3 digits).</p>	<p>Column method- regrouping. (up to 4 digits)</p>	<p>Column method- regrouping. Use of place value counters for adding decimals.</p>	<p>Column method- regrouping. Abstract methods. Place value counters to be used for adding decimal numbers.</p>
Subtraction	<p>Taking away ones Counting back Find the difference Part whole model Make 10 using the ten frame</p>	<p>Counting back Find the difference Part whole model Make 10 Use of base 10</p>	<p>Column method with regrouping. (up to 3 digits using place value counters)</p>	<p>Column method with regrouping. (up to 4 digits using place value counters)</p>	<p>Column method with regrouping. Abstract for whole numbers. Start with place value counters for decimals- with the same amount of decimal places.</p>	<p>Column method with regrouping. Abstract methods. Place value counters for decimals- with different amounts of decimal places.</p>

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Multiplication</p>	<p>Recognising and making equal groups. Doubling Counting in multiples Use cubes, Numicon and other objects in the classroom</p>	<p>Arrays- showing commutative multiplication</p>	<p>Arrays <math>2d \times 1d</math> using base 10</p>	<p>Column multiplication- introduced with place value counters. (2 and 3 digit multiplied by 1 digit)</p>	<p>Column multiplication Abstract only but might need a repeat of year 4 first (up to 4 digit numbers multiplied by 1 or 2 digits)</p>	<p>Column multiplication Abstract methods (multi-digit up to 4 digits by a 2 digit number)</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Division</p>	<p>Sharing objects into groups Division as grouping e.g. I have 12 sweets and put them in groups of 3, how many groups? Use cubes and draw round 3 cubes at a time.</p>	<p>Division as grouping Division within arrays- linking to multiplication Repeated subtraction</p>	<p>Division with a remainder- using lollipop sticks, times tables facts and repeated subtraction. <math>2d</math> divided by <math>1d</math> using base 10 or place value counters</p>	<p>Division with a remainder Short division (up to 3 digits by 1 digit- concrete and pictorial)</p>	<p>Short division (up to 4 digits by a 1 digit number including remainders)</p>	<p>Short division Long division with place value counters (up to 4 digits by a 2 digit number) Children should exchange into the tenths and hundredths column too</p>