

Calculation policy: Guidance

Addition

	EYFS/Year1	Year 2	Year 3	Year 4	Year 5	Year 6
	<p>Combining two parts to make a whole: part-whole model. (see dia1)</p> <p>Starting at the bigger number and counting on- using cubes. (see dia2)</p> <p>Regrouping to make 10 using ten frame. (see dia3)</p>	<p>Adding three single digits.</p> <p>Use of base 10 to combine two numbers.</p>	<p>Column method- regrouping with partitioning. (see dia4)</p> <p>Using place value counters (up to 3 digits).</p>	<p>Column method- regrouping. (see dia 5) (up to 4 digits)</p>	<p>Column method- regrouping. (see dia 5)</p> <p>Use of place value counters for adding decimals.</p>	<p>Column method- regrouping. (see dia 5)</p> <p>Abstract methods.</p> <p>Place value counters to be used for adding decimal numbers.</p>
	<p>Taking away ones (see dia6)</p> <p>Counting back (see dia7)</p> <p>Find the difference (see dia8)</p> <p>Part whole model</p> <p>Make 10 using the ten frame (see dia9)</p>	<p>Counting back (see dia7)</p> <p>Find the difference (see dia8)</p> <p>Part whole model</p> <p>Make 10 (see dia8)</p> <p>Use of base 10</p>	<p>Column method with regrouping with partitioning.</p> <p>(up to 3 digits using place value counters)</p> <p>GD: Column method with regrouping using vertical layout, expanded working. (see dia9/10)</p>	<p>Column method with regrouping.</p> <p>(up to 4 digits) (see dia9/10)</p>	<p>Column method with regrouping.</p> <p>Abstract for whole numbers. (see dia9/10)</p> <p>Start with place value counters for decimals- with the same amount of decimal places.</p>	<p>Column method with regrouping. (see dia9/10)</p> <p>Abstract methods.</p> <p>Place value counters for decimals- with different amounts of decimal places.</p>

Subtraction

Multiplication

Division

<p>Recognising and making equal groups.</p> <p>Doubling</p> <p>Counting in multiples Use cubes, Numicon and other objects in the classroom</p>	<p>Arrays- showing commutative multiplication (dia11)</p> <p>Repeated group addition. (see dia12)</p>	<p>Arrays (dia11)</p> <p>2d x 1d using base 10 (dia13)</p> <p>Grid method</p>	<p>Column multiplication- introduced with place value counters.</p> <p>(2 and 3 digit multiplied by 1 digit)</p> <p>(See dia14)</p>	<p>Column multiplication</p> <p>Abstract only but might need a repeat of year 4 first(up to 4 digit numbers multiplied by 1 or 2 digits) (See dia14)</p>	<p>Column multiplication</p> <p>Abstract methods (multi-digit up to 4 digits by a 2 digit number) (See dia14)</p>
<p>Sharing objects into Groups (see dia15)</p> <p>Division as grouping e.g. I have 12 sweets and put them in groups of 3, how many groups?</p> <p>Use cubes and draw round 3 cubes at a time</p>	<p>Division as grouping</p> <p>Division within arrays- linking to multiplication</p> <p>Repeated Subtraction (see dia16)</p>	<p>Division with a remainder-using lollipop sticks, times tables facts and repeated subtraction. (Dia17)</p> <p>2d divided by 1d using base 10 or place value Counters (dia18)</p>	<p>Division with a remainder</p> <p>Short division (up to 3 digits by 1 digit- concrete and pictorial) (see dia19)</p> <p>Long division with Chunking (dia20)</p>	<p>Short division (up to 4 digits by a 1 digit number including remainders) (see dia19)</p> <p>Long division with chunking (up to 4 digits by a 2 digit number) (dia20)</p> <p>Children should exchange into the tenths and hundredths column too</p>	<p>Short division (see dia19)</p> <p>Long division with place value counters (up to 4 digits by a 2 digit number) (dia20)</p> <p>Children should exchange into the tenths and hundredths column too</p>