



St Clement Danes Primary School  
**Maths Progression of Skills and Knowledge**

	KS1		KS2			
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Multiplication and Division</b>	<p>Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.</p>	<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising even and odd numbers.</p> <p>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</p> <p>Calculate the mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication,</p>	<p>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</p> <p>Write and calculation mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</p>	<p>Recall multiplication and division facts for multiplication facts up to <math>12 \times 12</math>.</p> <p>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>Recognise and use factor pairs and commutativity in mental calculations.</p> <p>Multiply two-digit and three-</p>	<p>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</p> <p>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>Recognise and use square numbers and cube numbers</p>	<p>Identify common factors, common multiples and prime numbers.</p> <p>Use estimation and check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</p> <p>Multiply multi-digit numbers up to 4-digits by a 2-digit number using the formal written method of long multiplication.</p>



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		<p>division and equal signs.</p> <p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context.</p>	<p>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</p>	<p>digit numbers by a one-digit number using formal written methods.</p> <p>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 <math>n</math> objects are connected to <math>m</math> objects.</p>	<p>and the notation for both.</p> <p>Multiply numbers up to 4-digits by a 1-digit or 2-digit numbers using a formal written method, including long multiplication for 2-digit numbers.</p> <p>Multiply and divide numbers mentally drawing upon known facts.</p> <p>Divide numbers up to 4-digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context.</p> <p>Multiply and divide whole numbers and those</p>	<p>Divide numbers up to 4-digits by a 2-digit numbers using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.</p> <p>Divide numbers up to 4-digits by a 2-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.</p>
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					<p>involving decimals by 10, 100 and 1000.</p> <p>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</p> <p>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p>	<p>Perform mental calculations, including mixed operations and large numbers.</p> <p>Solve problems involving the four operations.</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations.</p>
<b>Ration and Proportion</b>						<p>Solve problems involving the relative sizes of two quantities where missing</p>



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						<p>values can be found by using integer multiplication and division facts.</p> <p>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found.</p> <p>Solve problems involving unequal sharing and grouping using knowledge</p>
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						of fractions and multiples.
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