

Church Preen Primary School – Multiplication and Division

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication and Division: Recall, Represent, Use			<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even 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>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p>	<p>Recall multiplication and division facts for the multiplication tables up to 12 x 12</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>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, and the notation squared (2) and cubed (3)</p>	<p>Identify common factors, common multiples and prime numbers</p> <p>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</p>
Multiplication and Division: Calculations			<p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs</p>	<p>Write and calculate 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>Multiply two-digit and three-digit by one-digit numbers using formal written layout</p>	<p>Multiply numbers up to four-digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers</p> <p>Multiply and divide numbers mentally drawing on known facts Divide numbers up to four digits by a one-digit number using the formal written method of short division and interpret remainders</p>	<p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p> <p>Divide numbers up to four digits by a two-digit whole number using the formal written method of long division, and interpret remainders as</p>

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						<p>appropriately for the context</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000</p>	<p>whole number remainders, fractions or by rounding, as appropriate for the context</p> <p>Divide numbers up to four digits by a 2-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</p> <p>Perform mental calculations, including with mixed operations and large numbers</p>
<p>Multiplication and Division: Solve Problems</p>		<p>Solve one-step problems involving multiplication and division; by calculating the answer using concrete objects, pictorial representation, and arrays with the support of the teacher</p>	<p>Solve one-step 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 n objects are connected to m objects</p>	<p>Solve multiplication and division problems 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>		