

	Multiplication and Division		When Vocabulary is first introduced
EYFS	Grouping and sharing (Spring)	<ul style="list-style-type: none"> <li>• solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups</li> <li>• solve practical problems that involve grouping and sharing</li> <li>• explore counting on in steps of 2 from zero</li> </ul>	Double Equals Share
	Doubling and halving (Spring)	<ul style="list-style-type: none"> <li>• solve problems, including doubling, halving and sharing • Explore the relationship between doubling and halving</li> </ul>	
Year 1	Multiplication and division (Summer)	<ul style="list-style-type: none"> <li>• 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</li> <li>• recognise, find and name a half as one of two equal parts of a quantity</li> <li>• recognise, find and name a quarter as one of four equal parts of a quantity</li> </ul>	Divide Facts Fraction Half Quarter Repeated Addition Repeated Subtraction Symbol
Year 2	Multiplication and division 2, 5 and 10 (Autumn)	<ul style="list-style-type: none"> <li>• calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>• solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</li> <li>• show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>• recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> </ul>	Calculate Commutative Denominator Division Inverse Operations Multiple Multiplication Multiply Numerator Operation Vinculum

	Multiplication and division (3x and 4x tables) (Summer)	<ul style="list-style-type: none"> <li>• recall and use multiplication and division facts for the 3 and 4 multiplication tables (Y3)</li> <li>• calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>• solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</li> <li>• show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> </ul>	
Year 3	<p>Multiplication and division (Spring)</p> <p>Deriving multiplication and division facts (Summer)</p> <p>Securing multiplication</p>	<ul style="list-style-type: none"> <li>• recall and use multiplication and division facts for the 3 and 4 multiplication tables</li> <li>• count from zero in multiples of 4</li> <li>• 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</li> </ul> <ul style="list-style-type: none"> <li>• recall and use multiplication and division facts for the 3 and 4 multiplication tables</li> <li>• write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for twodigit numbers times one-digit numbers, using mental and progressing to formal written methods</li> <li>• 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</li> </ul> <ul style="list-style-type: none"> <li>• write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for</li> </ul>	Factor



Year 5	Multiplication and division (Autumn)	<ul style="list-style-type: none"> <li>• identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</li> <li>• recognise and use square numbers and the notation for squared (2 )</li> <li>• know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</li> <li>• establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>• multiply and divide whole numbers by 10, 100 and 1000</li> <li>• multiply and divide numbers mentally drawing upon known facts</li> <li>• solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes <ul style="list-style-type: none"> <li>• multiply numbers up to 4 digits by a one- or two-digit number using a formal written method</li> <li>• divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</li> </ul> </li> <li>• solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</li> </ul>	Common Factor Common Multiple Cube Number Divisible Long Division Long Multiplication Prime Factor Prime Number Remainder Square Number
Year 6	Multiplication and division (Autumn)	<ul style="list-style-type: none"> <li>• identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</li> <li>• use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</li> <li>• multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication <ul style="list-style-type: none"> <li>• multiply one-digit numbers with up to two decimal places by whole numbers</li> </ul> </li> <li>• divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</li> </ul>	Factorise BODMAS Proportion

		<ul style="list-style-type: none"><li>• divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</li><li>• use written division methods in cases where the answer has up to two decimal places</li><li>• identify common factors, common multiples and prime numbers</li><li>• perform mental calculations, including with mixed operations and large numbers</li><li>• solve problem</li></ul>	
--	--	--	--