



MULTIPLICATION AND DIVISION YEAR 5

Strand	What do I already know?	What am I going to be learning?	What will I learn in Year 6?
Mental calculation	<p>show that multiplication of two numbers can be done in any order – Y2</p> <p>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know – Y3</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 – Y4</p>	<p>multiply and divide numbers mentally drawing upon known facts</p> <p>multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p>	perform mental calculations, including with mixed operations and large numbers
Properties of numbers	recognise and use factor pairs and commutativity in mental calculations – Y4	<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 for squared and cubed.</p>	identify common factors, common multiples and prime numbers
Problem solving	<p>Solve one-step problems using concrete objects and arrays – Y1</p> <p>Solve problems using materials, arrays, repeated addition and mental methods – Y2</p> <p>Solve missing numbers, scaling and correspondence problems – Y3</p> <p>Apply the distributive law to multiply 2-digits by 1-digit, and harder problems involving scaling and correspondence – Y4</p>	<p>solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</p> <p>solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</p> <p>solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</p>	<p>solve problems involving addition, subtraction, multiplication and division</p> <p><i>also scale factors</i></p>
Vocabulary	Multiply, divide, product, multiple, quotient, commutative, factor, common factor, prime, square, cube.		

