

Maths - Multiplication & Division

The Federation of Nettlestone & Newchurch

Maths - Multiplication and Division					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"> • I can count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward. • I can count reliably in twos • I can share objects equally by counting how many in each group • I can 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 	<ul style="list-style-type: none"> • I can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers • I can solve problems involving multiplication and division, using concrete materials and mental methods • I can solve problems involving multiplication and division using arrays, repeated addition and multiplication and division facts, including problems in contexts • I can show that multiplication of two numbers can be done in any order(commutative) • I can calculate mathematical statements for multiplication within the multiplication tables and write them using the 	<ul style="list-style-type: none"> • I can recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • I can write and calculate mathematical statements for multiplication and division using the multiplication tables that he/she knows, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • I can solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects. • I can write and calculate mathematical 	<ul style="list-style-type: none"> • I can recall multiplication and division facts for multiplication tables up to 12×12 • I can solve problems involving multiplying and adding including 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 • I can 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 • I can recall 2/3/4/5/6/8 multiplication and division facts for multiplication tables 	<ul style="list-style-type: none"> • I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers • I can solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes • I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates • I can multiply and divide numbers mentally drawing upon known facts. • I know and use the vocabulary of: prime numbers, prime factors and composite (non prime) numbers. 	<ul style="list-style-type: none"> • I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication • I can 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. • I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. • I can calculate and interpret the mean as an average (statistics) • I can use my knowledge of the order of operations to carry out

	<p>multiplication (×) and equals (=) signs</p> <ul style="list-style-type: none"> • I can show that multiplication of two numbers can be done in any order (commutative) and division of one number by another number cannot 	<p>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>	<ul style="list-style-type: none"> • I can multiply two-digit and three-digit numbers by a one-digit number using the formal written layout • I can recognise and use factor pairs and commutativity in mental calculations 	<ul style="list-style-type: none"> • I can multiply and divide whole numbers and those involving decimals by 10,100 and 1000. • I can multiply numbers up to 4 digits by a one - or two digit number using a formal written method, including long multiplication for two-digit numbers. • I can recognise and use square numbers and cube numbers and the notation for squared and cubed. • I can divide numbers by 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context. • I can establish whether a number up to 100 is prime and recall prime numbers up to 19. 	<p>calculations involving the four operations.</p> <ul style="list-style-type: none"> • I can solve problems involving addition, subtraction, multiplication and division. • I can identify common factors, common multiple and prime numbers.
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