Maths Success in Year 5

[KEY] I can solve problems including scaling by simple fractions and problems involving simple rates.	I know whether a number up to 100 is prime and recall prime numbers up to 19.	[KEY] I can add and subtract larger numbers in my head.	I round numbers to check the accuracy of my solution.	I can multiply 4 digit numbers by a one- or two-digit number using a written method, including long multiplication for two-digit numbers.	[KEY] I can compare and order fractions whose denominators are all multiples of the same number.
I multiply and divide numbers mentally drawing upon my times table knowledge and other number facts.	I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.	[KEY] I can read, write, order and compare numbers to at least 1 000 000 and know the value of each digit.	I can solve number problems and practical problems that involve numbers up to 1000000, negative numbers, rounding or jumping in steps.	I can divide 4 digit numbers by a one-digit number using the written method of short division and find the remainder.	
I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	I count forwards or backwards in steps 10, 100, 1000, 10000 or 100000 for any given number up to 1000000.	[KEY] I can use negative numbers in my work and can count backwards and forwards to and from negative numbers.	[KEY] I can add and subtract whole numbers with more than 4 digits using written methods such as column addition and subtraction.	I know what square numbers and cube numbers are, including the notation for squared (2) and cubed (3).
[KEY] I can solve multiplication and division problems using my knowledge of factors and multiples, squares and cubes.	[KEY] I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and why.	I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.	I can solve more difficult problems involving addition, subtraction, multiplication and division and a combination of these.	

Learning Wall Mathematics **Class:** **Date:**

[KEY] I can draw a given angle (such as 47°), and then measure them in degrees (°).	I can change metric units to become imperial units such as inches, pounds and pints.	[KEY] I can read, write, order and compare numbers with up to three decimal places.	I can solve problems involving numbers with up to three decimal places.	[KEY] I can calculate the perimeter of multi-shape shapes in centimetres and metres.	I know one whole turn - or a set of angles all around a point - measure a total of 360°.

[KEY] I can calculate the area of rectangles in square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.	I use diagrams and some fraction tools to multiply proper fractions (7/10) and mixed numbers (1 7/10) by whole numbers.	I can name and write equivalent fractions of a given fraction, and show these in a drawing (including tenths and hundredths).	[KEY] I can read and write decimal numbers as fractions [for example, 0.71 = 71/100].	I can estimate volume [for example, using 1 cm3 blocks to build cuboids] and capacity [for example, using water].	

I can convert between the units of time.	I know what thousandths are and how to use them with tenths, hundredths and decimals.	I know what mixed numbers and improper fractions are and I can convert from one to the other [for example, 2/5 + 4/5 = 6/5 = 1 1/5].	I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.	I can round decimals with two decimal places to the nearest whole number and to one decimal place.	I can solve more difficult problems which involve units of measurement, decimal numbers and scales.

I can Identify 3-D shapes, including cubes and other cuboids, from 2-D drawings.	[KEY] I work on problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.	I know what the per cent symbol is (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.	[KEY] I can convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).	I know that angles are measured in degrees and I can estimate and compare acute, obtuse and reflex angles.	

Learning Wall Mathematics **Class:** **Date:**

	[KEY] I know regular shapes have equal sides and angles and irregular shapes do not have equal sides and angles.	I know that a straight line - or angles that add up to a straight line - measure 180°.	I can reflect or translate a shape on a grid.		
	I can solve problems using a line graph to fid the answers.	I can identify multiples of 90° (right angles).	I can find the missing lengths and angles of a rectangle.	[KEY] I can find the information I need from a timetable or large table of data.	