Year 5 Maths - Working at Expected Standard – Number & Place Value

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions
Sufficient evidence shows the ability to: ❏ Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. ❏ Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. ❏ Round any number up to ❏ 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. ❏ Solve number problems and practical problems that involve all of the above. ❏ Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	Sufficient evidence shows the ability to: ❏ Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). ❏ Add and subtract numbers mentally with increasingly large numbers. ❏ Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. ❏ Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	**Sufficient evidence shows the ability to:** ❏ Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. ❏ Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers. ❏ Establish whether a number up to 100 is prime & recall prime numbers up to 19. ❏ 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. ❏ Multiply and divide numbers mentally drawing upon known facts. ❏ 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 ❏ Multiply and divide whole numbers and those involving decimals by 10, 100 &1000. ❏ Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3). ❏ Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. ❏ Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. ❏ Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	**Sufficient evidence shows the ability to:** ❏ Compare and order fractions whose denominators are all multiples of the same number. ❏ Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. ❏ Recognise mixed numbers and improper fractions and convert from one form to the other & write mathematical statements > 1 as a mixed number[2/5 + 4/5 = 6/5 = 1 1/5]. ❏ Add and subtract fractions with the same denominator and denominators that are multiples of the same number. ❏ Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. ❏ Read and write decimal numbers as fractions [for example, 0.71 = 71/100]. ❏ Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. ❏ Round decimals with two decimal places to the nearest whole number and to one decimal place. ❏ Read, write, order & compare numbers with up to three decimal places. ❏ Solve problems involving number up to three decimal places. ❏ Recognise the percent symbol (%) and understand that percent relates to 'number of parts per hundred', write percentages as a fraction with denominator 100, & as a decimal. ❏ Solve problems which require knowing percent & 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.