Year 5 Maths Checklist

Number - Number and Place Value

I can:

☐☐☐ 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.

Assessment Point 1: ***Point 2:*** ***Point 3:***

Number – Addition and Subtraction

☐☐☐ 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.

Assessment Point 1: ***Point 2:*** ***Point 3:***

Number – Multiplication and Division

I can:

☐☐☐ 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 (non-prime) numbers.

☐☐☐ Establish whether a number up to 100 is prime and 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 and 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.

Assessment Point 1: ***Point 2:*** ***Point 3:***

Number – Fractions

I can:

☐☐☐ 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 and write mathematical statements > 1 as a mixed number [for example, 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 and compare numbers with up to three decimal places.

☐☐☐ Solve problems involving number up to three decimal places.

☐☐☐ Recognise the per cent symbol (%) 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.

☐☐☐ Solve 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.

Assessment Point 1: ***Point 2:*** ***Point 3:***