Year 6 Maths Checklist

Number - Number and Place Value

I can:

☐☐☐ Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.
☐☐☐ Round any whole number to a required degree of accuracy.
☐☐☐ Use negative numbers in context, and calculate intervals across zero.
☐☐☐ Solve number and practical problems that involve all of the above.

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

Number – Addition and Subtraction

I can:

☐☐☐ Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
☐☐☐ Perform mental calculations, including with mixed operations and large numbers.
☐☐☐ Use their knowledge of the order of operations to carry out calculations involving the four operations.
☐☐☐ Solve problems involving addition, subtraction, multiplication and division.
☐☐☐ Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

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

Number – Multiplication and Division

I can:

☐☐☐ Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
☐☐☐ Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
☐☐☐ 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.
☐☐☐ Identify common factors, common multiples and prime numbers.
☐☐☐ Perform mental calculations, including with mixed operations and large numbers.
☐☐☐ Use their knowledge of the order of operations to carry out calculations involving the four operations.
☐☐☐ Solve problems involving addition, subtraction, multiplication and division.
☐☐☐ Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

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

Number – Fractions

I can:

☐☐☐ Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
☐☐☐ Compare and order fractions, including fractions > 1
☐☐☐ Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
☐☐☐ Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 x 1/2 = 1/8].
☐☐☐ Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6].
☐☐☐ Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8].
☐☐☐ Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
☐☐☐ Multiply one-digit numbers with up to two decimal places by whole numbers.
☐☐☐ Use written division methods in cases where the answer has up to two decimal places.
☐☐☐ Solve problems which require answers to be rounded to specified degrees of accuracy.
☐☐☐ Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

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

Ratio and Proportion

I can:

☐☐☐ Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
☐☐☐ Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.
☐☐☐ Solve problems involving similar shapes where the scale factor is known or can be found.
☐☐☐ Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

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

Algebra

I can:

☐☐☐ Use simple formulae.
☐☐☐ Generate and describe linear number sequences.
☐☐☐ Express missing number problems algebraically.
☐☐☐ Find pairs of numbers that satisfy an equation with two unknowns.
☐☐☐ Enumerate possibilities of combinations of two variables.

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