Year 6
Assessment Grid

Maths

Place Value

1. Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit

2. Round any whole number to a required degree of accuracy

3. Use negative numbers in context, and calculate intervals across zero

4. Solve number and practical problems that involve ordering and comparing numbers to 10 000 000, rounding to a required degree of accuracy, using negative numbers and calculating intervals across zero

Addition and Subtraction

5. Perform mental calculations with mixed operations to carry out calculations involving the four operations.

6. Solve multi-step problems in contexts, deciding which operations and methods to use and why.

7. Solve problems involving addition and subtraction.

8. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

Multiplication and Division

9. Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

10. 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																												
11. 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																												
12. Perform mental calculations, including with mixed operations and large numbers																												
13. Identify common factors, common multiples and prime numbers																												
14. Use his/her knowledge of the order of operations to carry out calculations involving the four operations																												
15. Solve problems involving addition, subtraction, multiplication and division																												
16. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy																												

Fractions

17. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination																												
18. Compare and order fractions, including fractions > 1																												
19. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions																												
20. Multiply simple pairs of proper fractions, writing the answer in its simplest form e.g. $1/4 \times 1/2 = 1/8$																												

21. Divide proper fractions by whole numbers e.g. 1/3 ÷ 2 = 1/6																												
22. Associate a fraction with division and calculate decimal fraction equivalents e.g. 0.375 for a simple fraction e.g. 3/8																												
23. 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																												
24. Multiply one-digit numbers with up to two decimal places by whole numbers																												
25. Use written division methods in cases where the answer has up to two decimal places																												
26. Solve problems which require answers to be rounded to specified degrees of accuracy																												
27. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts																												

Algebra

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