



Year 5
Assessment Grid

Maths

Number and Place Value

1. Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
2. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
3. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
4. Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000
5. Solve number problems and practical problems that involve ordering and comparing numbers to 1 000 000, counting forwards or backwards in steps, interpreting negative numbers and rounding
6. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals

Addition and Subtraction

7. Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
8. Add and subtract numbers mentally with increasingly large numbers



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9. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

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

Multiplication and Division

11. Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

12. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers

13. Establish whether a number up to 100 is prime and recall prime numbers up to 19

14. 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

15. Multiply and divide numbers mentally drawing upon known facts

16. 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



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Measurement

34. Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)

35. Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints

36. Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

37. Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes

38. Estimate volume e.g. using 1 cm³ blocks to build cuboids (including cubes) and capacity e.g. using water

39. Solve problems involving converting between units of time

40. Use all four operations to solve problems involving measure e.g. length, mass, volume, money using decimal notation, including scaling

Properties of Shape

41. Identify 3-D shapes, including cubes and other cuboids, from 2-D representations



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42. Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles

43. Draw given angles, and measure them in degrees ($^{\circ}$)

44. Identify angles at a point and one whole turn (total 360°)

45. Identify angles at a point on a straight line and $1/2$ a turn (total 180°)

46. Identify other multiples of 90°

47. Use the properties of rectangles to deduce related facts and find missing lengths and angles

48. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles

Statistics

49. Solve comparison, sum and difference problems using information presented in a line graph

50. Complete, read and interpret information in tables, including timetables