



Maths Medium Term Overview – Autumn Year 6

Year 6 – Autumn term	
Week & Focus	NC objectives to be covered. NB – Non-statutory guidance and small step changes in repeated objectives are in bold.
1 & 2– Number & place value	▪ 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 (including placing numbers on a number line). ▪ Use negative numbers in context, and calculate intervals across zero. ▪ Solve number and practical problems that involve all of the above. ▪ Consolidation from Y5 : Count forwards or backwards in steps of powers of 10 for any given number. ▪ Consolidation from Y5: Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.
3 & 4 –Addition & subtraction	▪ Practise addition and subtraction for larger numbers, using the formal written methods of columnar addition and subtraction. Refer to pgs 41-43 addition booklet and pgs 49-51 of subtraction. ▪ Perform mental calculations, including with mixed operations (addition and subtraction at this point) and large numbers. Refer to mental strategies booklet pgs 48-57. ▪ Use estimation to check answers to calculations and determine, in the context of a problem, an



Maths Medium Term Overview – Autumn Year 6

	appropriate degree of accuracy. ▪ Solve problems involving addition and subtraction. ▪ Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
5 –Multiplication & division	▪ Pupils continue to use all the multiplication tables to calculate mathematical statements, in order to maintain their fluency. ▪ Consolidation from Y5: recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) ▪ Perform mental calculations, including with mixed operations and large numbers. ▪ Identify common factors, common multiples and prime numbers. ▪ Practise multiplication for larger numbers, using the formal written method of short multiplication (including problem solving). Refer to pg 25 multiplication booklet.
6 –Multiplication & division	▪ Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method for long multiplication. Refer to pg 26 multiplication booklet. ▪ Divide numbers up to 4 digits by a two-digit number using the formal written method of short division



Maths Medium Term Overview – Autumn Year 6

	where appropriate, interpreting remainders according to the context. Refer to pgs 25-30 division booklet. ▪ Solve problems involving multiplication and division.
7 – Fractions, decimals & percentages	▪ Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100, 1000 giving answers up to three decimal places ▪ Consolidation from Y5: Order, compare and round decimals up to 3 decimal places. ▪ Consolidation from Y5: Add and subtract decimals.
8 – Fractions, decimals & percentages	▪ Consolidation from Y5: Conversion between mixed numbers and improper fractions. ▪ Consolidation from Y5: Equivalent fractions. ▪ 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.
9 - Algebra	▪ Use simple formula.



Maths Medium Term Overview – Autumn Year 6

	- Express missing number problems algebraically. - Find pairs of numbers that satisfy an equation with two unknowns
10 – Measures – Perimeter, area & volume	Consolidation from Y5: Measure and calculate the perimeter of composite rectilinear shapes. Consolidation from Y5: Calculate and compare the area of rectangles. - Recognise that shapes with the same areas can have different perimeters and vice versa. - Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³) and extending to other units (for examples, mm³ and km³). - Recognise when it is possible to use formulae for area and volume of shapes.
11 – Geometry – Properties of shape	Consolidation from Y5: Estimate, compare and draw acute, obtuse and reflex angles – use of a protractor - Recognise angles where they meet at a point, are on a straight line and find missing angles. - Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles. These relationships might be expressed algebraically for example, $a = 180 - (b + c)$. Consolidation from Y4: Classify quadrilaterals and triangles. - Draw 2D shapes using given dimensions and angles.



Maths Medium Term Overview – Autumn Year 6

12 – Geometry – position & direction + Properties of shape

- Describe positions on the full coordinate grid (all four quadrants).
- Draw and translate simple shapes on the coordinate plane and reflect them in the axes.
- Predict missing coordinates using the properties of shapes. These might be expressed algebraically for example, translating vertex (a, g) to $(a - 2, b - 3)$.

ADDITIONAL WEEKS FOR ASSESSMENT, REVISITING, CONSOLIDATION & THEMED WORK