Year 6 | Mastery Overview Term by Term

In conjunction with….

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Based on Materials from…

MathsHUBS
White Rose

Term by Term Objectives

Year 6

Year 6 Overview

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Term by Term Objectives

Year 6

Objectives to cover throughout the year.

- Use estimation to check answers to calculations and determine in the context of a problem, an appropriate
- Generate and describe linear number sequences (including with fractions)
- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.
- Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp.
- Interpret and construct pie charts and line graphs and use these to solve problems

Term by Term Objectives

Year 6

Year group	6	Term	Autumn

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Number: Place Value and Number Properties **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. **Identify common factors, common multiples and prime numbers.**		Number- addition subtraction, ***Add and subtract numbers up to five digits using a written method when appropriate.*** 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.**		Number:- multiplication + division **Multiply multi-digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication when appropriate.** **Divide numbers up to 4 digits by a 1 digit number using the formal written method of short division, interpreting remainders according to context.** Divide numbers up to 4 digits by a 2 digit number using an appropriate written method. Solve problems involving addition, subtraction, multiplication and division.		Fractions, Decimals and Percentages *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 denominations and mixed numbers, using the concept of equivalent fractions.** **Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example x =]** Divide proper fractions by whole numbers [for example ÷ 2 =] *Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction* ***Recall and use equivalences between simple fractions, decimals and percentages.*** **Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison.**			Measurement- Area and Perimeter and volume. ***Recognise that shapes with the same areas can have different perimeters and vice versa.*** *Recognise when it is possible to use formulae for area and volume of shapes.* ***Calculate the area of rectangles, parallelograms and triangles using a formula.***	

Term by Term Objectives

Year 6

Year group	6	Term	Spring

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Number: Place value and number properties. ***Identify the value of each digit in numbers given to three decimal places and multiply numbers by 10, 100 and 1000 giving answers up to 3dp.*** *Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.* *Solve problems which require answers to be rounded to specified degrees of accuracy.* *Identify common factors, common multiples and prime numbers.*		Measures- Angles *Draw, measure and classify angles, including reflex angles.* *Know the number of angles in a triangle and quadraltieral and use this to solve missing angle problems.* *Recognize angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.*	Number- Algebra 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.*		Number- Four Operations ***Perform mental calculations, including with mixed operations and large numbers.*** ***Multiply multi-digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication when appropriate.*** ***Divide numbers up to 4 digits by a 1 digit number using the formal written method of short division, interpreting remainders according to context.*** *Use their knowledge of the order of operations to carry out calculations involving the four operations.* Solve problems involving addition, subtraction, multiplication and division.		Number: ratio *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 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.*		Geometry- Properties of Shape *Illustrate and name parts of circles, including radius, diameter and circumferenc e and know that the diameter is twice the radius.* *Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.*

Term by Term Objectives

Year 6

Year group	6	Term	Summer

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Fractions and Percentages ***Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison.*** *Carry out calculations using all four operations and fractions.*	Four Operations *Solve problems involving addition, subtraction, multiplication and division.*	SATS GAP FILL		SATS WEEK	Geometry- Properties of Shapes *Draw 2D shapes using given dimensions and angles* *Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.* *Geometry- Position and Direction 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.			Contextual maths project.				