|  |  |  |
| --- | --- | --- |
| **Number** | **Geometry and Measure** | **Algebra** |
| **Statistics** | **Probability** | **Ratio and Proportion** |

**CURRICULUM OVERVIEW 2024 – 2025 YEAR 6**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **YR 6** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
|  | **Units**   * Place value (Week 1-2) * Addition, subtraction, multiplication and division (Week 3-7) | **Units**   * Fractions A (Week 8-9) * Fractions B (Week 10-11) * Measurement – Converting units   (week 12) | **Units**   * Ratio (Week 1-2) * Algebra (Week 3-4) * Decimals (week 5-6) | **Units**   * Fractions, Decimals & Percentage (week 7-8) * Perimeter & area & volume (week 9-10) * Statistics (weeks 11-12) | **Units**   * Shape (wk 1-3) * Position & Direction (week 4) * SATS | **Units**   * Themed projects, consolidation and problem solving |
| **Key new knowledge** | **Place Value**   * Numbers to 1mil & 10mil * Read and write numbers to 10,000,000 * Powers of 10 * Number line to 10,000,000 * Compare and order any integers * Round any integer * Negative numbers   **Addition, Subtraction, multiplication and Division**   * Add/subtract integers * Common factors & * Common multiples * Rules of divisibility * Primes, squares, cubes * Multiply 4-digit by a 2-digit number * Solve multi/div problems * Introduction to long div * Long division with remainders * multi-step problems * Order of operations * Mental calculations and estimation * Reasoning from known facts | **Fractions A**   * Equivalent fractions and simplifying * Equivalent fractions on a number line * Compare and order * Add and subtract simple fractions/any two * Add & sub mixed numbers * Multi-step problems   **Fractions B**   * Multiply fractions by integers * Multiply fractions by fractions * Divide a fraction by an integer * Divide any fraction by an integer * Mixed questions with fractions * Fraction of an amount * Fraction of an amount – find the whole   **Converting Units**   * Metric measures (convert) * Miles and kilometres * Imperial measures | **Ratio**   * Use ratio language * Ratio symbol * Ratio and fractions * Scale drawing * Use scale factors * Similar shapes * Ratio problems * Proportion problems * Recipes   **Algebra**   * 1 and 2 step functions * Form expressions * Substitution * Formulae * Form equations * Solve 1and2 -step equations * Find pairs of values * Solve problems with two unknowns   **Decimals**   * Place value within 1 * Integers and decimals * Add & subtract decimals * Multiply and divide by 10, 100 and 1,000 * Multiply decimals by integers * Divide decimals by integers * Multiply and divide decimals in context | **Fractions, Decimals and Percentages**   * Decimal and fraction equivalents * Fractions as division * Fractions to percentages * Equivalent fractions, decimals& percentages * Order fractions, decimals& percentages * Percentage of an amount –one/multi step * Percentages – missing values   **Perimeter, Area and Volume**   * Area of a triangle – counting squares * Area of any triangle * Area of a parallelogram * Volume counting cubes * Volume of a cuboid   **Statistics**   * Line graphs * Dual bar charts * Read and interpret pie charts * Pie charts with percentages * Draw pie charts * The mean | **Shape**   * Measure &classify angles * Calculate angles * Vertically opposite angles * Angles in a triangle * Angles in a triangle – special cases * Angles in a triangle – missing angles * Angles in a quadrilateral * Angles in polygons * Circles * Draw shapes accurately * Nets of 3d shape   **Position and Direction**   * The first quadrant * Read and plot points in four quadrants * Solve problems with coordinates * Translations * Reflections   **SATS** | **Bakery Project**   * Scaling of recipes depending on how many of the final quantity are needed * Concept of profit and loss & different methods to calculate. * Creating appropriately shaped packaging through exploring * 3-D shapes, area and volume and how to draw accurate and sketched nets of cuboids   **Tours Project**   * unit conversions (km and miles) as well as time,   multiplicative reasoning and fractions.   * explore the four operations with money, * introducing further concepts such as percentages   **Futures Project**   * Linked to jobs and pay   e.g. salary, gross pay, income tax and take-home pay. Using percentages and different strategies for division. |
| **Assessments** | Arithmetic Test  Problem Solving and Reasoning Test | Arithmetic Test  Problem Solving and Reasoning Test/Consolidation | Arithmetic Test  Problem Solving and Reasoning Test | Arithmetic Test  Problem Solving and Reasoning Test | Arithmetic Test  Problem Solving and Reasoning Test | Arithmetic Test  Problem Solving and Reasoning Test/Consolidation |