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

**CURRICULUM OVERVIEW 2024 – 2025 YEAR 7**

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| **YR 7** | | **Autumn 1** | | **Autumn 2** | | **Spring 1** |
| **Content** | | **Unit 1 Analysing and displaying data**  **Unit 2: Calculating** | | **Unit 3: Expressions, functions and formulae**  **Unit 4: Graphs** | | **Unit 5: Factors and multiples**  **Unit 6: Decimals and measures** |
| **Key new knowledge** | | **Analysing & displaying data**   * Find information from tables and pictograms. * Find information from bar and bar-line charts. * Display data using bar and bar-line charts. * Organise data using a tally chart. * Understand and use frequency tables. * Understand and draw a grouped bar chart. * Find the mode data. * Find the modal class of a set of data. * Find the range and median of a set of data. * Compare sets of data using their range, mode and median. * Calculate mean data.   **Calculating**   * Add/sub numbers in different ways. * Approximation/Estimate * Recognise multiples. * Recognise sq numbers. * Find roots of square numbers on a calculator. Divide one number by another. * Use times tables to help you divide. * Solve simple ratio and proportion problems. * Use simple negative numbers.   **Unit Test 1 and 2** | | **Expressions, functions and formulae**   * Find outputs of simple functions. * Describe simple functions using words or symbols. * Simplify expressions. * Write expressions given a description in words. * Substitute positive integers into simple formulae written in words. * Substitute integers into simple formulae written in letter symbols. * Write simple formulae using words and letter symbols.   **Graphs**   * Read information from real-life graphs. * Draw graphs to show change over time. * Write the coordinates of points on a grid. * Plot points from their coordinates. * Plot graphs of simple functions. * Read values from graphs. * Draw line graphs to show relationships between quantities. * Read values from science graphs.   **Unit Test 2 and 3** | | **Factors and multiples**   * Understand the priority of operations. * Understand the rules of multiplication. * Use the operation keys on a calculator. * Recognise multiples of 2, 5, 10 and 25. * Work out multiples. * Multiply 3-digit numbers by a single digit. * Round numbers to the nearest 100& 1000. * Divide 3-digit numbers by a single digit. * Can divide a number by 2, 5, 9 or 10. * Begin to identify factors of numbers. * Solve problems involving multi & division. * Calculator to solve multi&division probs. * Find factors of numbers. Identify primes * Recognise & use multiples, factors& primes. * Find common factors & common multiples. * Work out the HCF & LCM of two numbers. * Work out if a number is divisible by 3, 4 or 6.   **Decimals and measures**   * Estimate, choose suitable units, to measure length, mass and capacity. * Record estimates to a degree of acc. * Understand, compare, order and use decimals for tenths and hundredths, * Order metric measurements. * Convert between different units. * Add and subtract decimal numbers. * Round decimals to nearest whole number and nearest tenth. * Use a calculator and interpret the display in different contexts (decimals). * Consolidate and extend mental calculation methods, including decimals. * Use a calculator to solve word problems involving money.**Unit Test 5 and 6** |
| **Year 7** | **Spring 2** | | **Summer 1** | | **Summer 2** | |
| **Content** | **Unit 7: Angles and lines**  **Consolidation** | | **Unit 8: Measuring and shapes**  **Unit 9: Fractions, decimals and percentages** | | **Unit 10: Transformations** | |
| **Key new knowledge** | **Angles and lines**   * Know a right angle is 90 degrees. * Recognise quarter, half & three-quarter turns. * Recognise parallel and perpendicular lines. * Use compass points. * Recognise acute and obtuse angles. * Measure acute angles. * Label lines and angles. * Recognise acute, obtuse and reflex angles. * Measure obtuse angles. * Estimate the size of angles. * Draw acute angles. * Find missing angles on a straight line& point   **Unit Test 7** | | **Measuring and shapes**   * Identify triangles, squares and rectangles. * Recognise the properties of triangles, squares and rectangles. * Describe the line symmetry of triangles, quadrilaterals and other shapes. * Solve problems using line symmetry. * Describe rotational symmetry. * Identify polygons. * Understand the line and rotational symmetry of rotational polygons. * Find the perimeter of squares, rectangles and regular polygons. * Calculate the perimeter of shapes made from rectangles. * Solve problems involving the perimeter of squares and rectangles. * Use metric units to measure area. * Calculate the area of squares and rectangles.   **Fractions, decimals and percentages**   * Order fractions. * Use fractions to describe parts of shapes. * Identify equivalent fractions. * Simplify fractions by cancelling. * Change an improper fraction to a mixed number. * Calculate simple fractions of quantities. * Add and subtract simple fractions. * Understand percentage as ‘the number of parts per 100’. * Write a percentage as a fraction or decimal. * Calculate percentages.   **Unit Test 8-9** | | **Transformations**   * Reflect a shape in a mirror line. * Draw and describe rotations * Identify congruent shapes.   **Unit Test 10**  Consolidation | |