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| **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 TestProblem Solving and Reasoning Test | Arithmetic TestProblem Solving and Reasoning Test/Consolidation | Arithmetic TestProblem Solving and Reasoning Test | Arithmetic TestProblem Solving and Reasoning Test | Arithmetic TestProblem Solving and Reasoning Test | Arithmetic TestProblem Solving and Reasoning Test/Consolidation |