

Year 8 Curriculum 2020 - 2021

Unit 1 - Number

- Calculations
- Divisibility and Division
- Calculating with Negative Integers
- Powers and Roots
- Powers, Roots and Brackets
- More Powers, Multiples and Factors

Unit 2 - Area and Volume

- Area of a Triangle
- Area of a Parallelogram and Trapezium
- Volume of Cubes and Cuboids
- 2D Representations of 3D Solids
- Surface Area of Cubes and Cuboids
- Measures

Unit 3 - Statistics, Graphs and Charts

- Pie Charts
- Using Tables
- Stem and Leaf Diagrams
- Comparing Data
- Scatter Graphs
- Misleading Graphs

Unit 4 - Expressions and Equations

- Algebraic Powers
- Expressions and Brackets
- Factorising Expressions
- One-Step Equations
- Two-Step Equations
- The Balancing Method

Unit 5 - Real-Life Graphs

- Conversion Graphs
- Distance-Time Graphs
- Line Graphs
- More Line Graphs
- Real-Life Graphs
- Curved Graphs

Unit 6 - Decimals and Ratio

- Ordering Decimals and Rounding
- Place Value Calculations
- Calculations with Decimals
- Ratio and Proportion with Decimals

Unit 7 - Lines and Angles

- Quadrilaterals
- Alternate Angles and Proof
- Angles in Parallel Lines
- Exterior and Interior Angles
- Solving Geometric Problems

Unit 8 - Calculating with Fractions

- Ordering Fractions
- Adding and Subtracting Fractions
- Multiplying Fractions
- Dividing Fractions
- Calculating with Mixed Numbers

Unit 9 - Straight-Line Graphs

- Direct Proportion on Graphs
- Gradients
- Equations of Straight Lines

Unit 10 - Percentages, Decimals and Fractions

- Fractions and Decimals
- Equivalent Proportions
- Writing Percentages
- Percentages of Amounts

