

Year 8 *MATHEMATICS* Curriculum Overview

HALF TERM 1	
Unit 1 Number	<ul style="list-style-type: none"> 1.1 Calculations 1.2 Divisibility and division 1.3 Calculating with negative integer 1.4 Powers and roots 1.5 Powers, roots and brackets 1.6 More powers, multiples and factors
Unit 2 Area and Volume	<ul style="list-style-type: none"> 2.1 Area of a triangle 2.2 Area of a parallelogram and Trapezium 2.3 Volume of cubes and cuboids 2.4 2D representation of 3D solids 2.5 Surface area of cubes and cuboids 2.6 Measures
HALF TERM 2	
Unit 3 Statistics, graphs and charts	<ul style="list-style-type: none"> 3.1 Pie Charts 3.2 Using tables 3.3 Stem and leaf diagrams 3.4 Comparing data 3.5 Scatter graphs 3.6 Misleading graphs
Unit 4 Expressions and equations	<ul style="list-style-type: none"> 4.1 Algebraic powers 4.2 Expressions and brackets 4.3 Factorising expressions 4.4 One-step equations 4.5 Two-step equations 4.6 The balancing method
HALF TERM 3	
Unit 5 Real-life graphs	<ul style="list-style-type: none"> 5.1 Conversion graphs 5.2 Distance time graphs 5.3 Line graphs 5.4 More line graphs 5.5 Real life graphs 5.6 Curved graphs
Unit 6 Decimals & ratio	<ul style="list-style-type: none"> 6.1 Ordering decimals and rounding 6.2 Place value calculations 6.3 Calculations with decimals 6.4 Ratio and proportion with decimals

HALF TERM 4**Unit 7 Lines and angles**

- 7.1 Quadrilaterals
- 7.2 Alternate angles and proof
- 7.3 Angles in parallel lines
- 7.4 Exterior and interior angles
- 7.5 Solving geometric problems

Unit 8 Calculating with fractions

- 8.1 Ordering fractions
- 8.2 Adding and subtracting fractions
- 8.3 Multiplying fractions
- 8.4 Dividing fractions
- 8.5 Calculating with mixed number

HALF TERM 5**Unit 9 Straight line graphs**

- 9.1 Direct proportion on graphs
- 9.2 Gradients
- 9.3 Equations of straight lines

HALF TERM 6**Unit 10 Percentages, decimals and fractions**

- 10.1 Fractions and decimals
- 10.2 Equivalent proportion
- 10.3 Writing percentages
- 10.4 Percentages of amounts