

# Key Stage 3 Mathematics Road Map

Mathematics content is cumulative, meaning that each piece of learning builds on and uses previously learned content.

**Year 7 Autumn**  
 Number (Positive and Negative), Factors, Multiples, Order of Operations  
 Forming Expressions, Equations and Inequalities

**Year 7 Spring**  
 2-D Shape and Angle Properties  
 Coordinates, Area, transformations  
 Forming Expressions, Equations and using formulae

**Year 8 Autumn**  
 Sequences and Patterns  
 Forming and Solving Algebraic Equations – Links to Graphs  
 Rounding to given degree of accuracy, Estimation

**Year 7 Summer**  
 Using Primes (HCF and LCM), roots, Squares and Cubes  
 Fractions, Decimals and Percentages- comparing and all operations

**Year 8 Spring**  
 Real Life Graphs  
 Direct and Inverse Proportion  
 Representing and Interpreting Statistics and Data

**Year 8 Summer**  
 Polygons and Angle Properties (interior and Exterior)  
 Bearings and Direction  
 Area, Perimeter and Volume of Composites and Circles

**Year 9 Spring**  
 Constructions and Loci, Similarity and Enlargement  
 Pythagoras' Theorem and Trigonometry (Right angle Triangles) and use of Surds

**Year 9 Autumn**  
 Fractions, Decimals, Percentages  
 Probability diagrams  
 Simultaneous Equations – Graphical and algebraic

**Year 9 Summer**  
 Quadratic expressions and Equations, Graphical and Algebraic  
 Index Notation and Rules  
 Standard Form  
 Growth and Decay

Key Stage 2

GCSE

Fluency

Problem Solving



Reasoning

To support your learning – assessment is on-going in class, through homework and will use the online systems MathsWatch, Eedi, and TTRockstars

Fluency, Reasoning, and Problem Solving are integrated into the course

Key	
Number	Geometry and Measure
Algebra	Ratio and Proportion
Probability	Statistics