



# Mathematics

## Subject content

### Autumn

### Spring

### Summer

## Year 7

Sequences

Algebraic Notation

Equality and Equivalence

Ordering, Integers and decimals

Fractions, decimals and percentages

Problem solving with addition and subtraction

Problem solving with multiplication and division

Four operations with directed number

Addition and subtraction of fractions

Constructing, measuring and using geometric notation

Developing geometric reasoning

Developing number sense

Sets and probability

Prime numbers and proof

## Year 8

Ratio and scale

Multiplicative change

Multiplying and Dividing fractions

Working in the Cartesian plane

Collecting and representing data

Tables

Brackets, Equations and Inequalities

Sequences

Indices

Fractions and Percentages

Standard Index Form

Number sense

Angles in parallel lines and polygons

Areas of trapezia and circles

Line symmetry and reflection

The data handling Cycle

Measures of location

## Year 9

Straight line graphs

Forming and solving equations

Testing conjectures

Three Dimensional shapes

Constructions and congruency

Numbers

Using Percentages

Maths and Money

Deduction

Rotation and Translations

Pythagoras' Theorem

Enlargement and Similarity

Solving ratio and proportion problems

Rates

Solving problems using graphs, tables and algebra

## Year 10

Congruence, Similarity and Enlargement

Trigonometry

Equations and inequalities

Representing Solutions

Simultaneous Equations

Angles and bearings

Working with circles

Vectors

Ratios and Fractions

Percentages and Interest

Probability

Collecting, representing and interpreting data

Non-calc methods

Types of number and sequences

Indices and Roots

## Year 11

Gradients and Lines

Non-linear graphs

Using Graphs

Expanding and factorising

Changing the subject

Functions

Multiplicative Reasoning

Geometric Reasoning

Algebraic Reasoning

Transformations and constructions

Listing and Describing

Show that...

Revision and Exams