

## Your Mathematics

## **Further & Higher Education**

Foundation mathematics supports many A-level choices and is a stepping stone to Core maths. Core maths is an enrichment option in many 6th form colleges which is seen by universities as a very beneficial qualification on application forms.

Journey

**Foundation Tier** 

## **Careers**

Almost all careers rely on the maths covered at foundation level as the skills underpin budgeting, finance, estimating and approximately, scheduleding and many other numerical applications.



Ratio, Proportion, Right-angled triangles, Pythagoras and Trigonometry Quadratic equations: expanding and factorising, Quadratic equations: graphs, Circles, cylinders, cones and spheres, Fractions and reciprocals

Rearranging equations, Graphs of cubic and reciprocal functions, Simultaneous equations

SUMMER

AUTUMN

Probablility, Multiplicative Reasoning, Plans and Elevations, Constructions, Loci and Bearings Indices and standard form, Similarity and congruence, 2D Vectors

Tables, charts and graphs, Pie

charts, Scatter graphs, Fractions,

decimals and percentages

**SPRING** 

Non-Calc arithmetic, Estimating (nearest), Recurring Decimals, Rounding, SF and DP, Percentages (x/100, a/b, % of), Percentage Increase and decrease, Ratio (simplify, share, recipes)

Real-life graphs, Straightline graphs, Transformations

SUMMER

SPRING

**AUTUMN** 

Properties of shapes, parallel lines and angle facts, Interior and exterior angles of polygons, Statistics, Sampling and the Averages Perimeter, Area and Volume

xaxh

Percentages, Equations and inequalities, Sequences

Indices, Powers and Roots, Angles
(lines, points, triangles, etc), Circle
Calculations, Algebra, Substituting,
Simplifying (+; -; x), Algebra Brackets,
Linear Equations

Expanding Brackets, Volume, Probability, Changing the Subject

**AUTUMN** 

Indices, Compound Measures, Scatter Graphs

**SPRING** 

Straight Line Graphs,

Plans & Elevations, Ratio & Proportion, Simultaneous Equations

SUMMER

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Factorising, Loci (& review Constructions) , Percentages, Enlargements

SPECIAL OFFER! WOFF

Speed & DST graphs, Real-

Life graphs,

Transformations (all 4),

Ratio, Circle calculations.

Quadratic Equations, Other Cartesian graphs, Fractions, Sampling, Sequences

Inequalities, Trigonometry, Grouped Data, Time Series

Straight Line
Graphs,
Simultaneous
Equations, Volume
of Prisms

Bearings, Stem & Leaf Diagrams, Averages (and Spread), Scatter Graphs, Sampling Methods, FDP work

Equations and change subject Indices/Stand ard Form, Fractions (multiply / divide & mixed), Inequalities & Inequations

 $q^2 + b^2 = c^2$ 

SUMMER

Pythagoras Theorem,
Contructions, Factorising,
Rounding & Estimating,
Inference & Errors

SPRING

Probability & Sets, Changing the UTUMN subject, Areas & Surface Area, Angles, Angle rules & Polygons, Bearings & Scale drawings, Stem & Leaf, Discrete Averages

Negative Numbers, Fractions, Collecting Terms, Properties of Numbers, Venn Diagrams Coordinates & graphs,
Parallel Lines, Formulae,
3D shapes, Forming
Equations & Sequences

Statistical diagrams,
Fractions, Data Analysis,
Constructions, FDP analysis,
Further Equations

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AUTUMN

SPRING

SUMMER





Volume,
Transformations,
Decimals, Written
Calculations (all
operations, including
decimals)

The Circle (vocabulary and Pi calculations), Probability, Frequency Trees

