



# Maths Learning Journey - Foundation

Continue your lifelong love of learning and personal development



Embark on a college course

Start an apprenticeship

PROBABILITY & STATISTICS (Scatter graphs, time Series, pie charts, averages from a list & a table inc grouped data)

NUMBER (Powers & roots, Index laws, Standard form, transformations & vectors)

ALGEBRA/GEOMETRY (SDT, real life graphs, quadratic & cubic graphs, co-ordinate geometry, similarity & congruence)

YEAR 11

GEOMETRY (Perimeter, area, volume. Circles, plans & elevations)

GEOMETRY/ALGEBRA (Constructions, Pythagoras & Trigonometry, Forming & solving linear & simultaneous equations)

Revision & catch up

Revision

YEAR 12

ALGEBRA & GEOMETRY (Sequences, Co-ordinates, straight line graphs, Properties of shape & angles, angles in parallel lines, bearings)

DATA HANDLING (Probability, 2 way tables, frequency trees & venn diagrams. Tables & charts)

NUMBER (Powers & roots, percentages, HCF/LCM, Fractions, rounding & use of calculator)

YEAR 10

RATIO & PROPORTION (Ratio & Proportion, Expressions & substitution . Expand & factorise. Solving Equations, changing the subject. Inequalities)

Estimation & Percentages of amounts. Interest, growth & Decay. Use of a calculator. Reverse Percentages, fractions, standard form & Index laws

GEOMETRY (Transformations, properties of shape & Angle facts. Perimeter & Area. 3D forms, Mensuration, Bearings. Angles in parallel lines. Interior & exterior angles. Pythagoras and Trigonometry)

PROBABILITY & STATISTICS (Tables & Charts – pie charts, stem and leaf, Probability, 2 way tables, frequency trees & Averages Inc averages from a table)

Powers, roots & decimals. Fractions & Percentages. Venn diagrams, multiples, factors, product of primes, HCF, LCM. Error intervals

YEAR 9

ALGEBRA (Expression & Substitution, expand & simplify. Factorising & solving Equations inc quadratics. Changing the subject, Inequalities, straight line graphs)

RATIO & PROPORTION (Best Value, Exchange rates, Ratio/Recipes. Unitary method. Ratio problem solving)

Use and derive formulae for 2D shapes

Ratio and Proportion

Perimeter inc Circles

Standard units and measures

Substitution inc SUVAT equations

Fractions, Decimals & Percentages

HCF, LCM, Prime Factorisation

YEAR 8

Properties of 3D shapes inc volume

Construct and interpret diagrams inc pie charts

Proportion & Ratio (unitary method)

Percentage change inc increase and decrease

Area of circles

Angles in parallel lines and polygons inc algebra

Solve linear equations

Plotting & sketching graphs

Calculations with BIDMAS

Fractions – Formal written methods inc mixed numbers and problem solving

Simplify and manipulate algebra, expand brackets, substitute into formulae

Shape (Angle properties, symmetry, polygons)

Coordinates in 4 quadrants

Collecting & Interpreting data (charts, tables & graphs, averages)



Factors, multiples, primes, HCF, LCM

Number Properties (Estimation, rounding, standard units of length)

YEAR 7

Number Properties (4 rules of number with integers and decimals inc standard form)

PRIMARY SCHOOL