DELTA Teaching School Alliance

Maths Route 2

Learning Journey

YEAR 11

Final exams

Revision — Pre exam sessions; Holiday and weekend sessions

Trial exams

Revision — Peer mentoring; Walking talking mocks; Staples challenge

Trial exams

Revision — QLA fixes; Bespoke SOW; After school sessions

Trial exams

Algebra — Reciprocal and exponential graphs; Proof; Surds; Direct and inverse proportion; Rearranging equations

Geometry — Vectors; Circle theorems

Algebra — Sketching graphs; Quadratics

Geometry — Graphs of trigonometric functions; Similarity and congruence; Circle geometry; Geometric proof

Algebra — Iteration; Expanding trinomials; Gradient and area under a curve; Algebraic fractions

Ratio — Multiplicative reasoning; Further trigonometry

Probability — Tree diagrams

YEAR 10

Data — Scatter graphs; Averages and range; Histograms; Cumulative frequency and box plots; Sampling; Represent and interpret data

Geometry — Constructions, loci and bearings; Transformations

Algebra — Linear, quadratic, cubic graphs; Simultaneous equations; Solving quadratics; Coordinate geometry; Real life graphs; Inequalities

Geometry — Accuracy and bounds; Volume of cylinders, cones and spheres; Area and perimeter; Circles

Ratio — Ratio and proportion; Fractions and percentages

Probability — Further probability

YEAR 9

Number — Indices, roots, reciprocals and order of operations; Standard form; Calculations and rounding; Factors, multiples and primes; Surds

Algebra — Rearrange and solve equations; Sequences; Factorising

Geometry — Pythagoras and trigonometry; Polygons, angles and parallel lines

Ratio — Similarity and congruence; Proportion

Algebra — Applied graphs

Geometry — Constructions and loci; Circles and compound area; 3D shapes, capacity and volume; Angles in parallel lines

Probability — Introducing probability

Algebra — Plot and interpret graphs; Powers and roots; Sequences

YEAR 8

Number — Understanding percentages; Fractions, decimals and percentages

Ratio — Ratio

Number — Powers and roots

Algebra — Plot and interpret graphs; Sequences

Geometry — Coordinates and transformations; Area of triangles, parallelograms and trapezia; Angles in triangles and polygons; Properties of 2D shapes; Perimeters of 2D shapes including circles

Data — Calculate mean, median, mode and range; Construct and interpret tables and diagrams

YEAR 7

Algebra — Simplify and manipulate algebra; Solving equations

Number — Comparing integers, decimals and fractions; Understanding fractions; HCF and LCM; Place value, decimals and scales; Order of operations; Four operations with fractions; Four operations with integers and decimals; Factors, multiples and primes; Baseline: GL Maths Test

welcome