DELTA Teaching School Alliance

# Maths Higher

## 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 — Algebraic fractions; Vectors
- Geometry — Geometric proof; Circle theorems
- Algebra — Circle geometry; Iteration; Sketching graphs
- Geometry — Expanding trinomials; Quadratics
- Ratio — Similarity and congruence; Graphs of trigonometric functions
- Ratio — Kinematics; Further trigonometry; Multiplicative reasoning
- Probability — Compound measures; Tree diagrams

### YEAR 10

- Data — Histograms; Cumulative frequency and box plots; Sampling
- Geometry — Volume; Area and perimeter; Circles, cylinders, cones and spheres
- Geometry — Constructions, loci and bearings; Pythagoras and trigonometry; Transformations
- Algebra — Equations and inequalities; Graphs
- Ratio — Ratio and proportion
- Number — Fraction, decimals and percentages
- Data — Averages
- Geometry — Parallel lines and angle facts; Interior and exterior angles in polygons
- Algebra — Expressions; Sequences; Substitution into formulae
- Number — Integers and place value; Standard form; Surds; Indices, powers and roots; Factors, multiples and primes
- Probability — Further probability

### YEAR 9

- Algebra — Applied graphs; Equation of a straight line
- Geometry — Similarity and congruence; Constructions and loci
- Ratio — Proportion
- Geometry — Circles and compound area; 3D shapes, capacity and volume; Angles in parallel lines
- Probability — Introducing probability
- Algebra — Plot and interpret graphs; Sequences
- Number — Powers and roots; Standard Form
- Ratio — Ratio
- Number — Understanding percentages; Fractions, decimals and percentages
- Geometry — Coordinates and transformations; Perimeters of 2D shapes including circles
- Geometry — Angles in triangles and polygons; Area of triangles, parallelograms and trapezia
- Data — Calculate mean, median, mode and range

### YEAR 8

- Geom — Properties of 2D shapes
- Algebra — Simplify and manipulate algebra; Solving equations
- Number — Comparing integers, decimals and fractions; Order of operations; Four operations with integers, fractions and decimals
- Data — Construct and interpret tables and diagrams
- Number — HCF and LCM; Place value, decimals and scales; Understanding Fractions; Factors, multiples and primes; Baseline: Maths Test

### YEAR 7

welcome