Our Learning Journey: Year 11 HIGHER Maths

Students will follow a unique Higher Tier-specific curriculum based from key

Knowledge over time

Year 11

Solving equations graphically

Drawing graphs

Standard form calculations

Prime factors

Tangent to a circle

Quadratic and cubic graphs

Standard form conversions

Using statistical techniques

Averages

Cumulative frequency

Pie charts

Histograms

Averages from tables

Box plots

Scatter graphs

Time series

Direct & inverse proportion

Parallel & perpendicular lines

Equation of a line

Bounds

Rounding & estimation

The gradient and y-intercept

Drawing linear graphs

Limits of accuracy

Bearings

Circles, Arcs & Sectors

Volume of 3D Solids

Surface area

Angles in polygons

Area of shapes using formulae

Shape problems with algebra

Angles in parallel lines

Circle theorems

Rearranging formulae

Quadratic formula

Forming equations

Linear equations

Vector Arithmetic

Rotations

Completing the square

Simultaneous equations

Linear inequalities

Vector geometry

Column Vectors

Enlargements

Right angled trigonometry

Cosine rule

Negative indices

Exact trig values

Reflections

Sine rule

3D problems

Fractional indices

Surds

Translations

Calculations with fractions

Algebraic proof

Quadratic expressions

Expanding & factorising

Algebraic fractions

Mixed numbers & improper fractions

Completing the square

Triple brackets

Year 10 Maths

Statistics & Probability

Number

Algebra

Geometry & Measures