Years 9 – 11:

Higher tier

Foundation tier

Mathematics Roadmap

Year 13

Trigonometric identities and equations

Differentiation & Integration

Statistics 1 & Mechanics 1

Functions and graphs

Binomial expansion

Trigonometric functions and modelling

Differentiation

Numerical methods & vectors

Year 12

Trigonometric ratios

Vectors

Exponentials and logarithms

Algebraic methods

Sequences and series

Radians

Parametric equations

Integration

Statistics 2 & Mechanics 2

Algebraic methods

Binomial expansion

Straight line graphs

Equations and inequalities

Algebraic expressions

More algebra

Vectors and geometric proof

Fractions, indices and standard form

Circle theorems

Quadratic equations and graphs

Algebraic expressions

Year 11

Circles

Graphs and transformations

Quadratics

Proportion and graphs

Congruency, similarity and vectors

More algebra

Perimeter, area and volume 2

Equations and graphs

Constructions, loci and bearings

Transformations and constructions

Perimeter, area and volume

Probability

Transformations

Similarity and congruence

Right-angled triangles

Further statistics

Multiplicative reasoning

Area and volume

Averages and range

Year 10

Equations and inequalities

Graphs

Multiplicative reasoning

Ratio and proportion

More trigonometry

Probability

Graphs

Angles

Interpreting and representing data

Graphs, tables and charts

Number

Number

Straight line graphs

Lines and angles

Real-life graphs

Expressions and equations

Angles and trigonometry

Equations, inequalities and sequences

Year 9

Statistics, graphs and charts

Fractions, ratios & Percentages

Fractions and percentages

Algebra

Algebra

Percentages, decimals and fractions

Calculating with fractions

Decimals and ratio

Area and volume

Analysing and displaying data

Expressions, functions and formulae

Fractions and percentages

Ratio and Proportion

Sequences and graphs

Number

Year 8

Number skills

Decimals and measures

Probability

Lines and angles

Transformations

Year 7