Bishop Luffa: Maths Higher Curriculum Map KS3-5

Inspiring and developing a lifelong curiosity in maths. Through Map, Master, Move on, our learners are able to acquire the knowledge and fluency to reach their full mathematical potential and succeed at A level and beyond.

YEAR 13

University & beyond

A Level Exams

Revision & exam skills

Study for comprehension paper

Pure – Integration, parametric equations, numerical methods

Applied – Hypothesis testing, moments

Mock exams

Applied – Friction, discrete random variables, normal distribution, 2D kinematics

Pure – Functions, further algebra & differentiation, proof, vectors

Prepare for UCAS

Summer strengthening work

Sequences, forces, circular measure

AS Exam option here if selected

Mock exams

Revision – Exam question practice

Applied maths – Forces, probability, binomial distribution, hypothesis testing

Linking concepts

February assessment

YEAR 12

Bridging tasks

Core Maths

GCSE Exams

Algebra – Proportionality & graph transforms

Shape - Vectors

Algebra – Functions, surds, algebraic fractions

Exam technique & practice

A Level Maths /Further Maths

Developing A Level study skills

Extending GCSE concepts – Quadratics, trigonometry, indices, equations, surds

Applied maths topics – kinematics, collecting & processing data

Autumn progress check

New pure concepts – Calculus, polynomials, transformations, coordinate geometry, logs & exponentials, binomial expansion

YEAR 11

Year 11 – Prepare to succeed

Exam skills

Weekly papers

Maths clinics

September skills check

Optional summer strengthening work

Shape – Circle theorems

SMC

Algebra – Equations, inequalities, graphical roots & iteration

Data – Sampling, histograms, cumulative frequency

Shape – 3D trigonometry, sine & cosine rule

Consolidation – linking Year 10 concepts

Shape – Congruence & similarity

YEAR 10

Year 10 – Developing curiosity for harder concepts

FSMQ

Algebra – Modelling and proof

Shape – Beginning trigonometry

End of year assessment

Algebra – Equations & sequences

Ratio & Proportion – Fractions, ratio, percentages

IMC

Algebra – Linear & nonlinear graphs

Algebra – Equations & inequalities

Shape – Multiplicative reasoning with compound measure

Building revision skills

Number – Surds, negative & fractional indices

Data – Bivariate data, graphs & averages

Shape –Angles, Pythagoras & trigonometry

Shape – Area, perimeter, volume of complex shapes

Shape - Transformations

Data – Two event probability, Venn diagrams

YEAR 9

Year 9 – Stretch, challenge & prepare for GCSE study

Algebra – Graphs, simultaneous equations & inequalities

Shape – Compound measure & bounds

Algebra – Non-linear graphs

Intermediate Maths Challenge

Ratio & Proportion – Multiplicative reasoning

Algebra – Inequalities, equations & formulae

Data – Collecting & analysing data

Number – Powers & roots

Algebra - Quadratics

End of year assessment

YEAR 8

Year 8 – Extending & developing skills & concepts

End of year assessment

Algebra – Sequences & graphs

Shape – 2D & 3D shapes

Junior Maths Challenge

Number – Factors & powers

Shape – Circles, Pythagoras & volume

Shape – Transformations

Shape – Constructions & loci

Junior Maths Challenge

Algebra – Linear graphs

Shape – Scale drawing, bearings & measures

Algebra – Manipulation of expressions

Algebra – Drawing & interpreting graphs

Ratio & Proportion – Fractions, decimals & percentages

Data – Probability

YEAR 7

Year 7 – Building on the foundations and exploring new and exciting concepts

Welcome to Bishop Luffa Maths!

Baseline assessment

Algebra – Solving equations

Shape – Angles & Polygons

Number – factors, primes, multiples, powers & roots

Junior Maths Challenge

Ratio & Proportion – Multiplicative reasoning

Number – Decimal arithmetic

Ratio & Proportion – Operations with fractions

Algebra – Equations, functions & formulae

Data – Averages, charts and graphs