

ROAD MAP OF

THE KS3 MATHEMATICS CURRICULUM

Accountancy
Actuary
Engineer
Doctor
Biochemist
Airline Pilot
Financial Services
Data Scientist

A Level Courses
A Level Maths
A Level Further Maths

Level 3 Courses
Core Maths

Apprenticeships, Other
Level 3 Courses,
Employment

11

10

Y9 Term 3
Assessment

Representations and Revision:
Revision

Representations and Revision:
Algebraic Representation

Representations and Revision:
Probability

9

Y8 Term 3
Assessment

Reasoning with
Data: The data handling cycle

Developing Geometry: Line of Symmetry and Reflection

Developing Geometry: Angles in parallel lines and Polygons

Developing Geometry: Area of Trapezia and Circles

Y8 Term 2
Assessment

8

Y8 Term 1
Assessment

Representations:
Tables & Probability

Representations:
Representing Data

Representations:
Working in Cartesian Plane

Proportional Reasoning:
Multiplying and Dividing Fractions

Proportional Reasoning:
Multiplicative Change

Proportional Reasoning: Ratio and Scale

Reasoning with Number: Prime Numbers and Proof

Y7 End of Year
Assessment

Reasoning with Number: Sets and Probability

Lines and Angles: Developing Geometric Reasoning

Y7 Term 2
Assessment

Fractional Thinking: Addition and Subtraction of Fractions

Directed Number: Operations and equations with directed number

Applications of Number: Fractions & Percentages of an amount

7

Baseline Numeracy Test

Algebraic Thinking: Understand and use algebraic notation

Place Value and Proportion: Place value, ordering integers & decimals

Y7 Term 1
Assessment

Applications of number: Solving Problems with multiplication and division (inc. area rectangle/triangle)

Algebraic Thinking: Sequences

Algebraic Thinking: Equality and Equivalence

Place Value and Proportion: Fraction, decimal, percentage equivalence

Applications of number: Solving Problems with addition and subtraction (inc. perimeter)

Confident Mathematicians and Creative Problem Solvers

ROAD MAP OF THE KS4 MATHEMATICS CURRICULUM

Accountancy
Actuary
Engineer
Doctor
Biochemist
Airline Pilot
Financial Services
Data Scientist

A Level Courses
A Level Maths
A Level Further Maths

Level 3 Courses
Core Maths

Apprenticeships, Other
Level 3 Courses,
Employment

Revision:
Probability and
Statistics

Revision: Ratio
and Proportion

Revision:
Geometry

Revision: Number

Revision: Algebra

U23 –
Constructions,
Plans, Bearing
and Elevations

Year 11 Spring
Assessment (U1-
22)

U24 - Vectors

U22 – Circles,
Circle Theorems,
**Equation of a
Circle, Proof**

U19 Other Graphs &
**Transformations of
Graphs**

Year 11 Mock
Exam (U1-17)

U17 – Pythagoras, RA
Trigonometry, **non-right
angled trigonometry**

U16 – Transformations,
Similarity and Congruence

U21 – Volume and
Surface Area – Prisms,
Pyramids, Spheres,
Cones and **Frustums**

U20 – Direct and
Inverse Proportion

U18 – Averages in Freq
Tables, Pie Charts,
Sampling and Histograms

11

U12 – Probability –
Tables, Tree
Diagrams & Venn
Diagrams

U14 – Sequences
and **Iteration**

U15 – Density,
Speed, Pressure &
Bounds

U13 – Area of
Circles, Sectors,
Arcs and
Segments

Year 10
Mock Exams
(U1 – 10)

U11 – Angles,
parallel lines and
polygons

U9 – Percentage
Change, Compound
Interest and
Depreciation

U8 – Straight
Line Graphs and
Functions

U7 – Indices,
Standard Form
and **Surds**

U6 – Linear
Equations,
Simultaneous
Equations,
Rearranging
Formulae,
Inequalities

U10 – Quadratic Functions,
Quadratic Inequalities,
**Quadratic Simultaneous
Equations**

Unit 4 – 7
Assessment

10

U2 – Expanding and
Factorising – Linear,
Quadratic, **Three
Brackets (H only)**

U4 – Ratio and
Proportion

Unit 1 – 3
Assessment

U5 – Averages
(inc freq
tables)
representing
data

U1 – Rounding, Estimation, HCF,
LCM & Decimal Calculation

U3 – Fraction Calculations,
Recurring Decimals,
Algebraic Fractions

KS3 Curriculum

Confident Mathematicians and Creative Problem Solvers