

HIGHER TIER PAPER

Below is a list of possible topics that could appear on the 2nd paper.
Do not take this as a complete list but it is a good starting point.

Data Handling

Histograms
Tree diagrams
Pie charts
Interquartile range from a discrete data set

Number

Fractions show working
Upper and lower bounds
Reverse percentages
HCF and LCM
Prime factors
Compound Interest

Algebra

Quadratic formula
Calculus/displacement
Curved graph
Gradient of a tangent to a curve
Simultaneous equations 1 linear 1 quadratic
Inequalities
Recurring decimals
Inequalities and regions
Nth term
Factorising Quadratics

Geometry and Measure

Volume and surface area of 3D shapes
Areas of circles and sectors
Circumference/arc length of a circle
Bearings
Angles of elevation/ depression
Sine Rule
Cosine rule
Area of triangle $\frac{1}{2}ab \sin C$
Circle theorems
Angle Calculations- Parallel lines- Polygons