GCSE HIGHER TIER-SYLLABUS

ARITHMETIC

1) Adding Fractions
2) Multiplying Fractions
3) Dividing Fractions
4) Estimation
5) Best Buys
6) Currency
7) Conversion Graphs
8) LCM/HCF
9) Percentages of Amounts
10) Percentage Change
11) Compound Interest
12) Reverse Percentages
13) Recurring Decimals to Fractions
14) Ratio
15) Direct Proportion
16) Inverse Proportion
17) Speed, Distance, Time
18) Density
19) Pressure

ALGEBRA

1) Indices
2) Indices (fractional/negative)
3) Standard Form
4) Product Rule for Counting
5) Error Intervals
6) Collecting Like Terms
7) Expanding a Bracket

8) Expanding 2/3 Brackets
9) Factorising
10) Factorising Quadratics
11) Algebraic Fractions
12) Sequences (nth term)
13) nth Term (Quadratics)
14) Substitution
15) Equations
16) Changing the Subject
17) Inequalities
18) Inequalities (Regions)
19) Quadratic Inequalities
20) Linear Graphs
21) Parallel and Perpendicular Lines
22) Simultaneous Equations
23) Equation of a Circle
24) Midpoint of a Line
25) Length of a Line
26) Graphical Inequalities
27) Composite Functions
28) Inverse Functions
29) Transformation of Graphs
30) Exponential Growth and Decay
31) Algebraic Proof
32) Completing the Square
33) Iteration

TRIGONOMETRY

1) Pythagoras
2) Trigonometry

3) 3D Trigonometry and Pythagoras
4) Sine Rule
5) Cosine Rule
6) 1/2abSinC
7) Exact Trigonometric Values
8) Trigonometric Graphs

GEOMETRY

1) Angles in Parallel Lines
2) Bearings
3) Angles in Polygons
4) Constructions
5) Loci
6) Area of a Trapezium
7) Circumference
8) Area of a Circle
9) Arc Length
10) Area of a Sector
11) Volume of a Cylinder
12) Volume of a Prism
13) Volume of Cone/Pyramid/Sphere
14) Surface Area of a Prism
15) Surface Area of Cone/Sphere
16) Translations
17) Reflections
18) Rotations
19) Enlargements
20) Similar Shapes
21) Circle Theorems
22) Vectors

23) Geometric Proof
24) Congruent Triangles
25) Invariant Points

STATISTICS

1) Frequency Trees
2) Two Way Tables
3) Pie Charts
4) Bar Charts
5) Frequency Polygons
6) Histograms
7) Cumulative Frequency
8) Box Plots
9) Estimating the Mean
10) Stem and Leaf
11) Time Series
12) Scatter Graphs
13) Line of Best Fit
14) Probability
15) Venn Diagrams
16) Tree Diagrams
17) Sampling
18) Capture Recapture
19) Probability Scale
20) Independent Events
21) Dependent Events