

Higher Paper 1 – Non-Calculator

1. Circle theorems
2. Ratio
3. Completing the square and turning points
4. Pie charts
5. Geometric and Fibonacci-type sequences
6. Rearranging formulae
7. Surds
8. Transformations
9. Relative frequency and experimental probability
10. Fractions of quantities and unit conversion
11. Congruent triangles / geometric proof
12. Laws of indices
13. Coordinates and area of a triangle
14. Simplifying algebraic expressions
15. Cumulative frequency and box plots
16. Solving quadratic equations by factorising
17. Quadratic sequences – finding the n th term
18. Speed–time graphs and distance travelled
19. Estimation and approximation
20. Fractions and decimals / multiplying mixed numbers
21. Venn diagrams and probability
22. Expanding triple brackets
23. Reciprocal graphs / interpreting graphs
24. Standard form and decimals
25. Ratio involving algebra
26. Negative and fractional indices

Higher Paper 2 – Calculator

1. Vectors
2. Reverse percentages
3. Quadratic graphs – roots and intercepts
4. Compound measures and units
5. Sine rule and cosine rule
6. Difference of two squares
7. Two-way tables and probability
8. Algebraic identities
9. Bounds and upper/lower limits
10. Pie charts and interpreting statistical diagrams
11. Plans and elevations
12. Direct proportion involving powers
13. Gradient of a curve / instantaneous acceleration
14. Ratio, fractions and probability
15. Right-angled trigonometry
16. Algebraic simplification / order of operations
17. Percentage profit and reverse percentage reasoning
18. Properties of 3D shapes
19. Combined probability
20. Graphical simultaneous equations
21. Compound percentage growth
22. Enlargement with a negative fractional scale factor
23. Circle terminology – tangent and sector
24. Iteration
25. Area of a triangle using trigonometry
26. Inequalities and regions
27. Interpreting a non-linear graph

Higher Paper 3 – Calculator

1. Histograms and estimating the mean
2. Similar shapes
3. Currency and unit conversion
4. Functions, composite functions and inverse functions
5. Loci and constructions
6. Pressure and compound measures
7. Relative frequency
8. Solving linear equations
9. Bearings
10. Probability tree diagrams
11. Volume of cones and spheres / Pythagoras in 3D
12. Standard form
13. Fractions, ratio and percentages
14. Equation of a straight line – gradient and intercept
15. Pythagoras' theorem
16. Combining ratios
17. Grouped frequency tables and quartiles
18. Inverse proportion
19. Circle theorems and geometric proof
20. Area of a trapezium / solving equations
21. Fractions and decimals
22. Perpendicular lines and equations of straight lines
23. Ratio, fractions and percentages
24. Forming and solving inequalities
25. Substitution, powers and plotting straight-line graphs