Year 10 Summer Exam 2024 Revision Higher

Paper 1

Multiply decimals
Calculating with roots and powers
Index laws
Prime factor decomposition
HCF and LCM
Calculating the mean
Construction
Forming and solving equations
Reverse percentages
Real-life graphs
Area and circumference circles
Box plots
Parallel and perpendicular lines
Similar shapes
Gradients of non-linear graphs
Substituting into iterative formulae
Factorising quadratics
Quadratic inequalities
Tree diagrams
Graphs of trigonometric functions
The cosine rule
Equations of circles and tangents
Simultaneous equations linear and quadratic
Geometric sequences

Paper 2

Expanding and factorising
Changing the subjects of formulae
Percentage change
Compound interest
Solving equations
Sharing in a ratio
Bearings
Volume of cylinders
Error intervals
Expanding triple brackets
Tree diagrams
Direct and inverse proportion
Midpoints
Pythagoras' theorem

Recurring decimals
Histograms
Averages
Sine rule
Iterative formulas
Vectors
Composite and Inverse functions
Algebraic fractions
Venn diagrams

Paper 3

Standard form
Averages from grouped data
Inequalities
Lowest common multiple
Inverse proportion
Speed
Pressure
Equations of straight line
Changing the subjects of formulae
Drawing and interpreting scale diagrams
Area of sectors
Cumulative frequency graphs
Box plots
N^{th} term rule quadratic sequence
Similar shapes
Product rule for counting
Completing the square
Quadratic formula
Factorising quadratics
Enlargement
Combining transformations
Volume of composite shapes
Translating graphs
Transforming graphs
Circle theorems
Error bounds
Trigonometry and Pythagoras' theorem in 3D