



National 5 Mathematics

Section 1 – Expressions and Formulae

Section 2 – Relationships

Section 3 – Applications

Section 1 – Expressions and Formulae

Approximating Numbers

Significant Figures & Scientific Notation

Operations with Surds

Rules of Indices

Algebraic Operations

Algebraic Fractions

The Gradient of a Straight Line Graph

The Equation of a Straight Line Graph

Arc Length & Sector Area

Volumes of Cones, Pyramids & Spheres

Section 2 – Relationships

Solving Linear Equations & Inequations

Solving Simultaneous Equations

Rearranging Formulae

Solving Quadratic Equations

Discriminant and the Nature of Roots

Graphs of Quadratic Functions

Pythagoras' Theorem

Geometry and the Properties of Shapes

Similar Figures

Trigonometric Functions

Trigonometric Function Graphs

Trigonometric Equations



Section 3 – Applications

The Sine & Cosine Rule
Problems Involving Bearings
Vectors
Simple & Compound Measures
Appreciation & Depreciation
Operations with Fractions
Comparing Distributions
Quartiles & Standard Deviation
Scatter Graphs & Lines of Best Fit