



Unit 3

Circle angles

- Double angle
- Tangent rule

Construction

- Bisection
- Triangles
- Congruence

Bearings, scale drawings

Inequalities

- 2D
- 1D

- Trial & improvement
- Graphical solutions
- Algebraic fractions

Line intersections

Formula

Complete the square

Factorise

Quadratic

Linear

Equations

- Loci
- Quadratic
- Cubic
- Reciprocal
- Exponential

Graphs

Function transformations

Transformations

- Translation
- Enlargement
- Rotation
- Reflection

Area & Volume

- Circles
  - Perimeter & area
  - Sectors
  - Segments
- Triangles, trapezia
- Prisms
- Pyramids

Pythagoras

- 2D
- 3D

Trigonometry

- SohCahToa
  - 6 formulae for lengths
  - 3 formulae for angles
- Trig. equations
- Area of triangle
- Sine rule
- Cosine rule

Vectors

- Add
- Subtract
- Parallel

Bounds

- Lower & upper
- $a+b, a-b$
- $a*b$
- $a/b$

Proportion

- Direct, inverse
- Enlargement factor
- Making a formula
- Geometric similarity

Area & volume scale factors

Percentages

- Find % change
- Amount after increase or decrease
- Compound interest
- Reverse percentage change