

Year 9 Maths (higher)

Calculating

- Indices.
- Standard form.
- Upper and lower bounds.

Visualising and Constructing

- Constructions and Loci.

Algebraic Proficiency

- Identities.
- Factorising quadratics.
- Mathematical argument.

Proportional Reasoning

- Algebraic proportion.
- Congruent and similar shapes.

Pattern Sniffing

- Sequences (Fibonacci).
- Identify and represent quadratic sequences.

Solving Equations and Inequalities 1

- Represent and solve inequalities.

Calculating Space

- Circles.
- Parts of circles.
- Surface area.

Conjecturing

- Proof.
- Congruent triangles.

Algebraic Proficiency - Visualising

- Plotting linear graphs.
- Equations of linear graphs.
- Real life graphs.

Solving Equations and Inequalities 2

- Solving equations (graphs).
- Simultaneous equations.

Understanding Risk

- Tree diagrams.
- Relative frequency.

Presentation of Data

- Frequency tables.
- Histograms.

**Advice to students
for independent
study**

Log on to online resources such as Maths Watch to access video tutorials and complete additional questions on the topics being studied.