

GCSE Math; HIGHER

FINAL Revision List for Papers 3 2018

Here is a list of what is likely to come up on the calculator paper 3, based on what was on the first two papers. Make sure you have your calculator and you know how to use it!

Number

- ✓ **Counting strategies**
- ✓ Fractions of an amount
- ✓ **Reciprocals**
- ✓ Prime factorisation
- ✓ **Converting recurring decimal; to fraction;**
- ✓ **Reverse Percentages**
- ✓ **Error intervals**
- ✓ Equivalent ratios including ratios in the form 1 : n or n : 1
- ✓ Converting between currencies and measures

Algebra

- ✓ Expanding brackets (incl. **triple brackets**)
- ✓ **nth term** of a linear or **quadratic sequence**
- ✓ **Factorising Quadratics**
- ✓ Solving quadratic equations by **factorising** or using the **quadratic formula**
- ✓ Completing the square
- ✓ Solving **simultaneous equations** algebraically
- ✓ Representing inequalities on a graph
- ✓ **Changing the subject of a formula** where variable occurs twice
- ✓ Equations of tangents to a circle
- ✓ Solving equations containing algebraic fractions
- ✓ **Iteration;**
- ✓ Estimating the **area under a curved graph**

Geometry

- ✓ Area and perimeter of 2D shapes (rectangles, triangles, parallelograms and trapeziums)
- ✓ **Circle formula;** including area, circumference, arc length and sectors
- ✓ Converting units for length, area and volume
- ✓ Using **angle fact;** to solve problems including **angle; in regular polygon;**
- ✓ Transformation (translations and rotations)
- ✓ **Bearings;**
- ✓ Scale drawings
- ✓ **Constructions;** (incl. triangles, perpendiculars and bisectors) and **Loci**
- ✓ **Similar Shapes;** including similar areas and volumes
- ✓ Proving triangles are mathematically **similar** or **congruent**
- ✓ **Volume** and surface area **of a prism,** cylinder, cone, frustums, etc.
- ✓ **Sine rule, cosine rule** and **area of a triangle** using $\frac{1}{2}ab\sin C$
- ✓ Proofs involving **vectors;**

Handling Data

- ✓ **Scatter graphs**
- ✓ **Mean, mode, median, range from frequency tables**
- ✓ **Comparing distributions**
- ✓ Pie charts
- ✓ Time-series graphs (identifying trends)
- ✓ Frequency trees
- ✓ **Frequency polygons**
- ✓ **Cumulative frequency curves** (incl. estimating the median and interquartile range)
- ✓ **Relative frequency** (experimental probability)
- ✓ **Venn diagrams** and **set notation**
- ✓ Capture-recapture

Final After-school Revision Session

11/06/18

A1 – Mr Ciccantelli – M2

A2 – Mr Flanagan-Jones – M2

A3 – Miss Pratley – M5

A4 – Mrs Harper – M1

A5 – Mrs Aston – M3

B1 – Mrs Aston – M3

B2a – Mrs McCabe – M8

B2b – Mrs Morgan – M8

B3 – Mr Ciccantelli – M7

B4 – Mrs Harper – M7

B5 – Mr Jones – M4

GOOD LUCK!!