

Y10 June Mock Topic List – Higher - Non - Calculator / Calculator

End of Year Exams Y10

Dear Y10,

You will sit both a paper 1 (non-calculator) and a paper 3 (calculator) for your end of year exams. With these mocks you will have seen all the three types of papers that you will sit for your exams at the end of Y11. Below you will find the topics you can revise for your end of year exams.

Paper 1 (Non-Calculator)

- Product of prime factors
- Four operations with fractions
- Index laws
- Multiplying decimals
- Estimating probabilities
- Harder ratio questions
- Pressure/Force/Area questions
- HCF and LCM questions
- Plotting and interpreting cubic graphs
- Transformations: Enlargement, rotation, reflection, and translation
- Solving simultaneous equations
- Inver proportion
- Plotting and interpreting histograms
- Working with arc length
- Algebraic proof
- Circle theorem
- Algebraic fractions
- Probability tree calculations
- Graphing trigonometric functions
- Sine rule
- Geometric sequence
- Volume of sphere and cones

Paper 3 (Calculator)

- Converting metric units (including area and volume)
- LCM problem solving
- Pressure/Force/Area questions
- Plotting and interpreting quadratic graphs
- Calculating compound interests
- Angles on parallel lines
- Trigonometric ratios
- Calculate the mean from frequency tables for continuous data
- Plotting and interpreting cumulative frequency

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- Fractions, decimals, percentage problem solving questions
- Plotting and solving inequalities graphically
- Circle theorem questions
- Factorising quadratics
- Ratio problem solving
- Volume and surface area of cones
- Probability tree questions
- Translating graphs
- Calculating upper and lower bounds
- Vector questions
- Equation of circles

This time you will sit Paper 1 and Paper 3. Please read them carefully and if you have any questions about a specific topic, please ask your Maths teacher. Each paper is 90 minutes, and you will sit these exams in the sport hall.

The equipment you need for each paper is as follows:

Paper 1 - Non-Calculator

- pen
- pencil
- sharpener
- eraser
- ruler
- protractor
- compass

Paper 3 - Calculator

- Scientific calculator - <https://www.casio.co.uk/calculators/education/scientific>
- pen
- pencil
- sharpener
- eraser
- ruler
- protractor
- compass

Y10 Maths Assessments are taking place on the Week commencing 19th June 2023. These assessments are set changing.