



Testbourne Community School

Mathematics AQA GCSE

Mock II Revision Summary List – Foundation Tier

Year 11 – March 2025

<p><u>Mock Paper Details</u></p> <p>Mathematics paper 1:</p> <p>Non-calculator paper</p> <p>(Main mock exam rooms)</p> <ul style="list-style-type: none"> • Written exam: 1hr 30 min • 80 marks • 33 ¹/₃ % of Mock <p>Mathematics paper 2:</p> <p>Calculator paper</p> <p>(Main mock exam rooms)</p> <ul style="list-style-type: none"> • Written exam: 1hr 30 min • 80 marks • 33 ¹/₃ % of Mock <p>Mathematics paper 3:</p> <p>Calculator paper</p> <p>(In class)</p> <ul style="list-style-type: none"> • Written exam: 1hr 30 min • 80 marks • 33 ¹/₃ % of Mock <p>Refer to your mock timetable for dates and times of paper 1 and paper 2.</p> <p>Paper 3 will be completed in class and your teacher will confirm a date for this.</p>	<p><u>Topics will be taken from the following list and these may be on any of the papers</u></p> <ul style="list-style-type: none"> • Division of integers (whole numbers) • Negative number calculations (+/- x/÷) • Identifying a formula given words • Estimating calculations by rounding • Perimeter related to special triangles • Identifying an outlier from a set of data • Percentage problem – working out what percentage one quantity is out of a total. • Units and fractions & simplifying fractions. • Angles in a triangle linked to algebra • Adding and subtracting decimals • Subtraction of fractions • Sequences term to term rules • Translations and translation vectors • Probabilities add to '1' problem • Solving simultaneous equations graphically • Matching decimals to a Number line • Identifying terms of algebraic expressions • Conversion of units of time • Recognising the names of parts of a circle • Conversion of mixed numbers and fractions and decimals • Rounding to decimal places • Working out the cost of items and services • Drawing quadrilaterals accurately from a given description • Using the range of a set of data • Solve Time based problems • Using BIDMAS to solve calculations • Identifying and using coordinates on a grid • Identify the equation of line on a grid • Fractions of amounts • Best buy type problems • Simplifying algebraic expressions • Interpreting and using scales on drawings • Drawing Pie charts for given information • Notation – using the symbols <, >, ≥, ≤ • Multiply out single brackets • Factorising • Converting a ratio to percentages and representing ratios as n : 1 • Naming parts of a circle • Writing numbers in standard form • Index laws & numbers with indices. • Venn diagrams 	<ul style="list-style-type: none"> • Complete and use a probability tree diagram and use the 'and' & 'or' rules for probability • Know special numbers such as squares, cubes, triangular numbers, primes • Understanding place value (decimals as fractions) • Simplify products of algebraic terms • Identify appropriate units of measurement • Calculations with units of time • Solving money based problems • Interpreting in a bar chart • Using ratio in problems with mixed units of measurement • Complete Frequency trees and calculate probabilities from frequency trees • Names of polygons • Line and rotational Symmetry • Use and complete number machine • Simplify algebraic expressions • Substitution into algebraic equations • Simplifying algebraic fractions • Interpreting ratios • Interpreting a line chart and calculating the mean from a line chart • Multiples and factors and highest common factors • Problems involving the dimensions of cylinders of spheres and cylinders • Use of calculator for calculating different roots and indices • Angles in parallel lines (alternate, corresponding and allied) • Representing a ratio on a graph • Evaluate results of a probability experiment knowing that the more trials the more accurate the probability • Using the Mean average to complete a set of values Calculations involving multiplication and division and units of time • Relating variables in an algebraic equation to a percentage • Relative frequency (probability from data) and expectation (expected number) • Percentage increases and decreases • Area of 2D shapes • Solving algebraic Equations • Converting between fractions and % • Identifying factors of numbers continued...
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| <ul style="list-style-type: none">• Identifying a graph from cubic and quadratic graphs• Interpreting 'real life' graphs• Calculations with fraction and decimals• Standard constructions using a pair of compasses in context• Area of sectors and parts of circles.• Solving Equations• Density/Mass/Volume• Equivalent Ratios as fractions• Listing possible combinations• Notation – using = and < > correctly• Order of operations – using BIDMAS to complete a calculation correctly• Working out total cost of a purchase given the price per 100g for each item.• Mode and median• Pythagoras theorem• Determining coordinates that satisfy a linear equation. | <ul style="list-style-type: none">• Trigonometry for sides and angles (right angled triangles sin, cos, tan SOHCAHTOA)• Calculating the percentage increase/decrease when values change• Solving a quadratic equation to find its roots• Arithmetic and geometric progressions (sequences)• Problems related to the area and perimeter of compound shapes• Calculations with column Vectors• Sharing in ratio problems• Speed, distance, time problems• Upper and Lower bounds problems (limits of accuracy/error intervals)• Using $y = mx + c$ form to identify the gradient and y intercept of a straight line |
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Essential equipment

Black pens, pencils, rubber, ruler, protractor, pair of compasses and a scientific calculator for Papers 2 and 3.

Mathematical skills

Students will be required to complete calculations without a calculator (paper 1) and with a calculator (paper 2 and paper 3). Students will be required to recall what they have learnt and apply this to unfamiliar situations. Students will have to use some of the formulae that they are expected to have learnt, however a formula sheet provided gives other formula that students may have to use.

For some of the questions a formula may be given with the question and in these cases, students are required to be able to use these formulae.

Working out and quality of written communication

Students are required to present their full working out for all questions and to answer questions in a clear manner that is easy to follow.

Revision materials

CGP Books GCSE Maths AQA Revision Guides and Workbooks for the Mathematics Grade 9-1 Course. TCS SharePoint – Students (Student Portal) – Subjects – Maths GCSE revision resources can be found in the Higher and Foundation folders. Downloadable content and other revision media is available here. Within these areas you will find some useful resources, that you may want to use now and prior to the summer examinations.

Suggested revision activities and websites

Make mind maps, revision mats or flash/revision cards for each topic. Answer practice exam questions and go back through your year 11 Mock 1 feedback. There are practice questions and answers in the revision workbooks from CGP Books and on SharePoint as detailed above. Re-do Mymaths tasks from Year 10 and Year 11 so far. Note that the following websites may also prove useful:-

<https://www.mathsgenie.co.uk>
<https://www.corbettmaths.com>
<https://www.mrbartonmaths.com>

<https://www.aqa.org.uk/find-past-papers-and-mark-schemes>
<https://www.cgpbooks.co.uk>