Testbourne Community School

Mathematics AQA GCSE Mock II Revision Summary List – Higher Tier

Year 11 – March 2025

Mock Paper Details	Topics will be from the following list and these may be on any of the papers	Volume of 3D shapes such as cones and appeared and hamisphared
Mathematics paper 1:	incse may be on any of the papers	spheres and hemispheres
Non-calculator paper	Equations of a line Writing one number as a fraction of an-	length, area and volume scale factors
(Main mock exam rooms)	other	Interpreting Pie charts Understanding the term product (multiplica-
• Written exam: 1hr 30 min	pliers	tion) and calculations with fractions and whole numbers.
 80 marks 33 ^{1/3} % of Mock 	• Congruency of triangles – identifying and giving reasons for congruency E.G. SAS	Using a scale drawing and volume of a cyl- inder
	 Standard form Rules of indices and working out the value 	Product rule for counting (combinations) Circle theorems
Mathematics paper 2:	of numbers given in index form	Deriving and solving a quadratic equation
Calculator paper	Interpreting 'real life' graphs	based on information linking algebra and area
(Main mock exam rooms)	 Calculations with fractions and decimals Standard constructions using a pair of 	Compound interest Sine rule (non-right angle triangles)
• Written exam: 1hr 30 min	compasses in context • Area of sectors and parts of circles	 Composite functions E.G fg(x) given f(x)
 80 marks 33 ^{1/3} % of Mock 	Completing a probability tree & using the	Linear/quadratic simultaneous equations
	Solving Equations	 Exponential and quadratic graphs (finding equations using information on graphs)
Mathematics paper 3:	 Simplifying Algebraic fractions Simplifying expressions including factoris- 	Solving Ratio problems related to money Plans and elevations of solid shapes
Calculator paper	ing quadratics & algebraic fractions	 Solving quadratic equations using the quad-
(In class)	and distance travelled	 Coordinates on a grid linked to ratio
Written exam: 1hr 30 min 80 marks	 Probability using and/or rules Transformation of graphs 	Equation of a circle Reciprocals
• 33 ^{1/3} % of Mock	• Calculations with exact trig values such as	Factorising quadratics
	Equivalent fractions and percentages	 Find an equation of a straight line graph given two coordinates and information
Refer to your mock	Set notation (symbol for union, intersec- tion, complement)	about lines that are perpendicular to it. • Functions (f(x)=). Related problems in-
times of paper 1 and	 Knowing special numbers such as squares, cubes, triangular numbers, 	cluding inverse functions.
	primes	Upper and Lower bounds problems (limits
in class and your teacher	Calculations involving multiplication and di-	 of accuracy/error intervals) Interior and exterior angles of polygons
will a confirm a date for this.	Using the Mean average to complete a set	 Completing the square and turning point Order decimals including recurring decimals
	of values Relative frequency (probability from data) 	Calculations with column vectors including with pogative numbers
	and expectation (the expected number)	Scatter graphs, correlation, lines of best fit
	 Percentage increases and decreases Pythagoras theorem 	and outliers continued
	Area of 2D shapes	

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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 I 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 also 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

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