



GCSE Maths

MATHEMATICS
is not about
numbers, equations,
computations, or
algorithms:
it is about
UNDERSTANDING.

William Paul Thurston



Key points

- What exams are coming up
- What's different this year?
- How pupils should prepare for the exams
- Resources



February PPEs

TWO written exams

Paper 1 Non calculator (80 marks) $1\frac{1}{2}$ hours 4 March

Paper 2 Calculator (80 marks) $1\frac{1}{2}$ hours 8 March



Summer GCSEs

THREE written exams

Paper 1	Non calculator (80 marks)	$1\frac{1}{2}$ hours	20 May
Paper 2	Calculator (80 marks)	$1\frac{1}{2}$ hours	7 June
Paper 3	Calculator (80 marks)	$1\frac{1}{2}$ hours	13 June

Exam Board: AQA

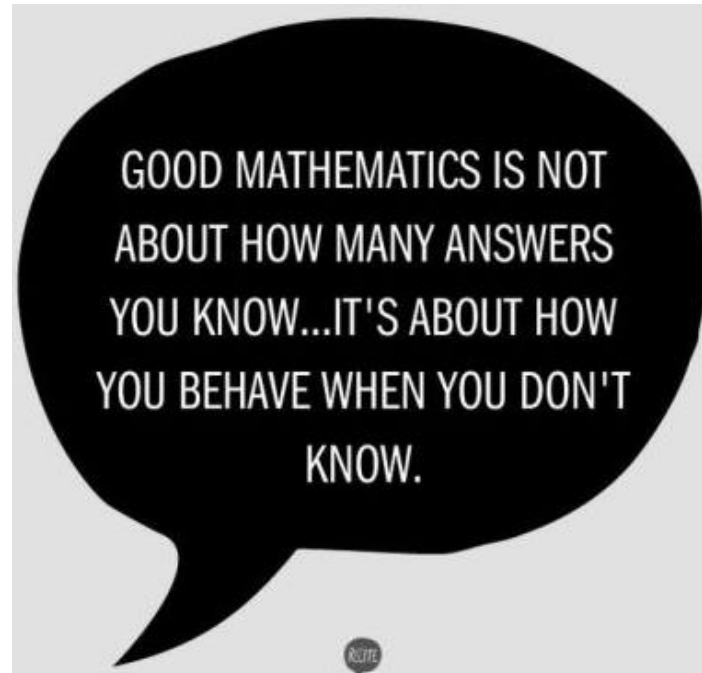


What's different this year?

- No topics have been removed
- Advanced notification of topics to be examined: release date 7 February
- PPEs will assess these topics
- Formulae: given in exams, focus on understanding when and how to use them rather than memorising the formula



How to prepare for the exams



Taking action on feedback given is the best way to improve your maths.



**Don't practise 'til
you get it right.
Practise 'til you
can't get it wrong.**



Using an exam feedback PLC

Question Level breakdown:

Paper 1	Question	Total Marks	% Marks achieved	Paper 2	Question	Total Marks	% Marks achieved	Paper 3	Question	Total Marks	% Marks achieved
1	Cube root (214)	1	100%	1	Area of Circle (18)	1	100%	1	Counting fractions, including (2)	1	100%
2	Vector translation (325)	1	100%	2	Standard form (300)	1	100%	2	Inequalities (176)	1	100%
3	Simplify expressions (3,18)	1	100%	5	Recognise types of sequence (212,226)	4	100%	5	Common factors & multiples (218,213)	4	100%
4	Estimation (215)	1	100%	6	Increase by a %, % change (233,238)	3	67%	6	Lengths in similar shapes (292)	3	67%
5	Solve inequalities (178)	2	100%	7	Relative frequency (248)	3	100%	7	Compound interest (236)	4	100%
6	Express as a fraction (136)	3	100%	8	Ratio (271)	3	33%	8	Eqn of parallel lines, points on a line (19)	5	40%
7	Coordinates geometry problem (84,87)	3	100%	9	Error intervals (377)	3	100%	9	Reverse % (240)	3	100%
8	Relative frequency (248)	2	100%	10	Volume of sphere (361)	3	100%	10	Use nth term to find terms (288)	3	67%
9	Range/ Add mixed numbers (57,133,138)	3	100%	11	Probability tree diagram (252)	4	100%	11	Column vectors (353a)	4	100%
10	Inverse proportion (255)	2	100%	12	Gradient (189)	2	100%	12	Pressure (385)	2	100%
11	Perimeter, form & solve eqns (115,241)	4	100%	13	Simplify algebraic fractions (24)	3	100%	13	Properties of quadrilateral (2)	1	100%
12	Standard form (300)	2	100%	14	Loci (75,76,77)	2	100%	14	Plot exponential graph (345)	3	100%
13	Convert metric volume (351)	1	100%	15	Median, range, IQR (50,57)	1	100%	15	Write an expression (16)	1	100%
14	Sequences/ equivalent ratio (286,271)	5	80%	16	Density, volume of cylinder (357,384)	4	100%	16	Solve simultaneous eqns graphically (28)	1	100%
15	Relative frequency (248)	3	33%	17	Average speed from velocity graph (13)	4	75%	17	Product rule for counting (283)	3	100%
16	Ratio/ % increase (208,233,269)	1	100%	18	Evaluate indices (172)	1	100%	18	Subtract algebraic fractions (21)	3	100%
17	Sine rule (363,374)	1	100%	19	Trigonometry (329,330)	4	25%	19	Eqn of straight line graph (194)	1	100%
18	Surface area of cylinder (315)	5	60%	20	Substitution (20)	3	100%	20	Pythagoras, rearrange formulae (7, 257)	3	100%
19	Cumulative frequency & bar charts (149)	5	100%	21	Cosine rule (335,336)	4	100%	21	Direct proportion (254)	5	100%
20	Form & solve simultaneous eqn (235)	4	100%	22	Eqn of a circle (12)	1	100%	22	Circle theorem (64,65)	1	100%
21	Enlarge by a given scale factor (108)	2	100%	23	Volume & area of similar shapes (293a)	3	100%	23	Iteration (373)	2	50%
22	Set notation (google it)	1	100%	24	Calculations with bounds (184,355)	4	50%	24	Area under curve (389)	4	75%
23	Increase/decrease by a fraction (141)	3	67%	25	Probability from Venn diagrams (380)	4	100%	25	3D pythagoras & trig (257,332)	6	83%
24	Simplify indices, fractional indices (173)	5	80%	26	Solve simultaneous eqns, incl. quadratic	4	100%	26	Histograms (157,158)	6	100%
25	Trig graphs (338,339,340)	2	100%	27	Recurring decimal to fraction (36)	3	100%	27	Probability of 2 or more events (243,244)	3	100%
26	Write ratio in simplest form (263)	3	33%	28	Functions (369)	6	17%	28	Equation of tangent to a circle (372)	5	100%

Question by question, what topic was tested.
The more filled in the bar, the better you understood it

The numbers in brackets show where to find that topic on Corbettmaths
Watch the video, make notes
Practice questions
Mark your work



How pupils should prepare for the exam

- Use PLCs & revision to prioritise which topics are their weak points
- Plan out a revision schedule to revise those topic
- How to revise
 - watch video
 - make notes
 - do questions – lots of variety
 - Mark them & get help if needed
- Do practice ‘exam papers’
- Bring a scientific calculator & maths equipment to every lesson



Resources



www.corbettmaths.com

Corbettmaths

Videos, worksheets, 5-a-day and much more

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Type text to search here...

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Videos and Worksheets

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2D shapes: names [Video 1](#) [Practice Questions](#) [Textbook Exercise](#)

2D shapes: quadrilaterals [Video 2](#) [Practice Questions](#) [Textbook Exercise](#)

3D shapes: names [Video 3](#) [Practice Questions](#) [Textbook Exercise](#)

3D shapes: nets [Video 4](#) [Practice Questions](#) [Textbook Exercise](#)

3D shapes: vertices, edges, faces [Video 5](#) [Practice Questions](#) [Textbook Exercise](#)

Addition: column method [Video 6](#) [Practice Questions](#) [Textbook Exercise](#)

Algebra: changing the subject [Video 7](#) [Practice Questions](#) [Textbook Exercise](#)

Algebra: changing the subject advanced [Video 8](#) [Practice Questions](#) [Textbook Exercise](#)

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Corbettmaths Revision Cards

Available for GCSE Higher or Foundation Tier



Calculator





<https://www.drfrstmaths.com/>



The Castle School

Points this Year: 3431 Global Rank: 23139 ?

Key Skills: 0/367



Key Skills are finegrained question types where you can practise randomly generated questions with accompanying short worked example videos.

Go



Latest Homework

✓ Set by Mr George

Know the place value of digits in whole numbers. Order integers. Multiply any integer by a single-di...

Review All



Trophies: 21/37

You earn trophies for achievements related to answering questions.

View

Practise by Topic

Practise past paper questions by topic and difficulty.

Go



Videos: 0/270

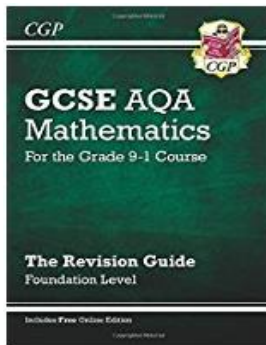
Watch teaching videos before you attempt new topics.

View

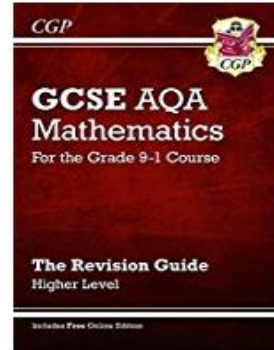
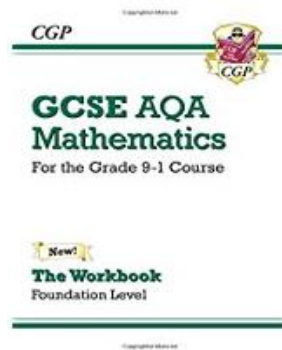


AVAILABLE FROM STUDENT RECEPTION

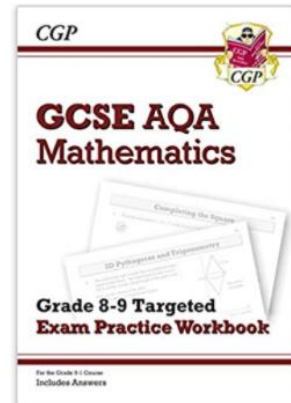
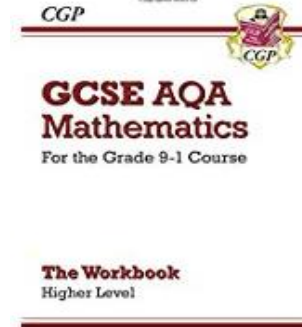
Revision Guides & workbook: £5.70 for both



Foundation

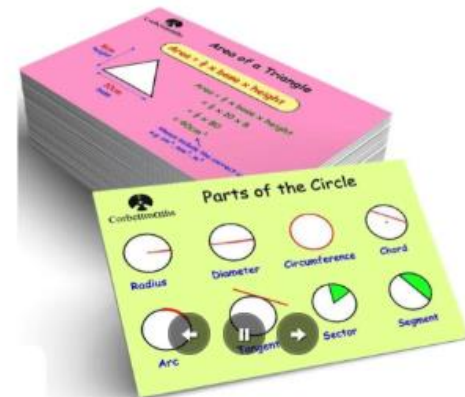


Higher



Available for Higher or Foundation Tier

Corbettmaths Revision cards
£6.50





AVAILABLE FROM STUDENT RECEPTION



Casio Scientific Calculator: £8.50

Pencil case with
maths equipment: £1.75





Any questions?