

2024 Year 10: How to succeed

# Mathematics

# Y10/Y11 Maths Key Dates 2024-2025

### **Maths Assessments:**

Y10 Mock exams: w/c 15<sup>th</sup> April 2024 – Full GCSE Calculator paper

Y11 Assessment: w/c 14<sup>th</sup> October

Y11 MOCK Exams – w/c 24th February 2023

### **GCSE Exams:**

Thursday 15<sup>th</sup> May 2025 - Paper 1 (calculator)

Wednesday 4<sup>th</sup> June 2025 - Paper 2 (non-calculator)

Wednesday 11<sup>th</sup> June 2025 - Paper 3 (calculator)

### **Further Maths Exams:**

10<sup>th</sup> June 2025 - Paper 1 (non-calculator)

18<sup>th</sup> June 2025 – Paper 2 (calculator)

# Equipment

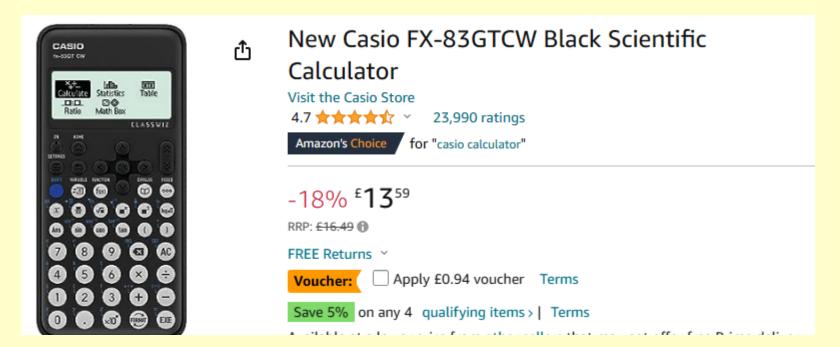
Your teachers expect you to have the following equipment in every lesson and exam. If you have your own, then you can use it in exam practice at home.

Pen, pencil, ruler, protractor, compasses:

These are available in the learning resource centre.

### Scientific calculator:

If you do not already have one, we recommend this new model: (Available at supermarkets or online)

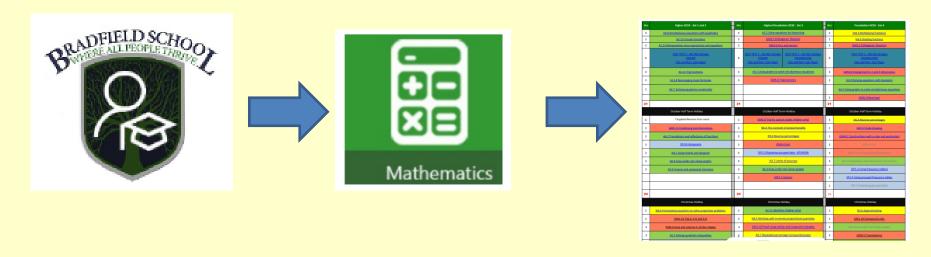


## Be efficient: Plan your time and use it well



# Practice exam papers and resources are on Student Sharepoint





Our exam board is OCR but maths is maths so all the other exam boards' papers are relevant too.

# Practice exam papers and resources are on **Student Sharepoint**



## Bradfield School SharePoint



01 N2.6Video Writing... August 7, 2023



02 N2.6 Writing num... August 7, 2023



02 N2.6 Writing Stan... October 4, 2023



03a Mymaths Lesson ... August 7, 2023



03b Mymaths Lesson ... August 7, 2023



04 N2.6 Practising skil... August 7, 2023



05 N2.6 Developing fl... August 7, 2023



06 N2.6 Problem solvi... August 7, 2023



07 N2.6 Reviewing ski... August 7, 2023



08 N2.6 Answers - Wr... August 7, 2023



09a Mymaths Homew... August 7, 2023



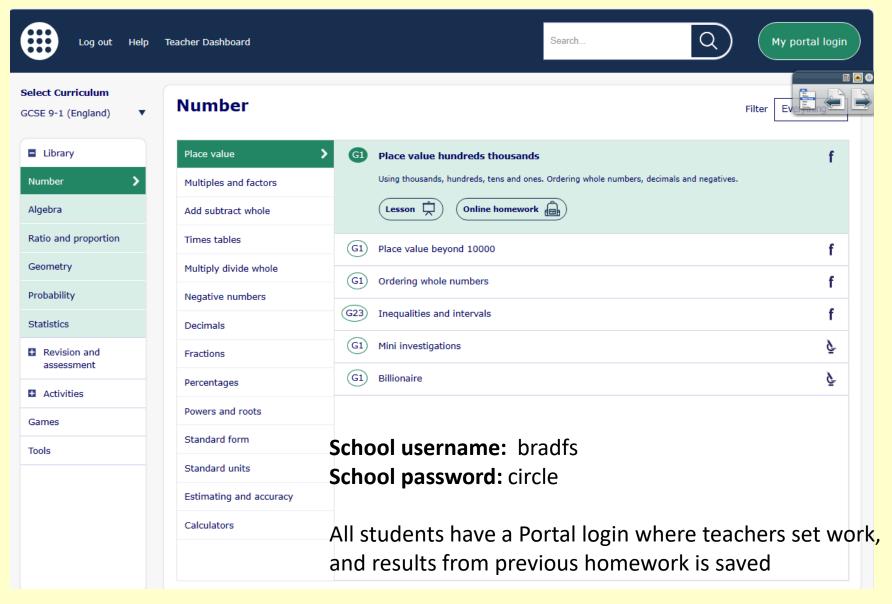
09b Mymaths Home... August 7, 2023

# Help after school



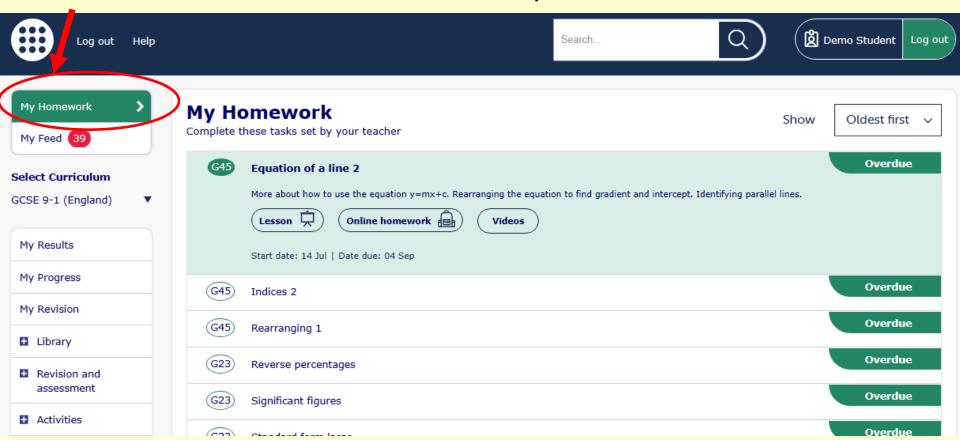
Tuesday 3pm-4pm
Maths Rooms (C1 Corridor)
Everyone Welcome!

# Mymaths.co.uk



## Mymaths.co.uk – Student portal

See homework that has been set by teachers

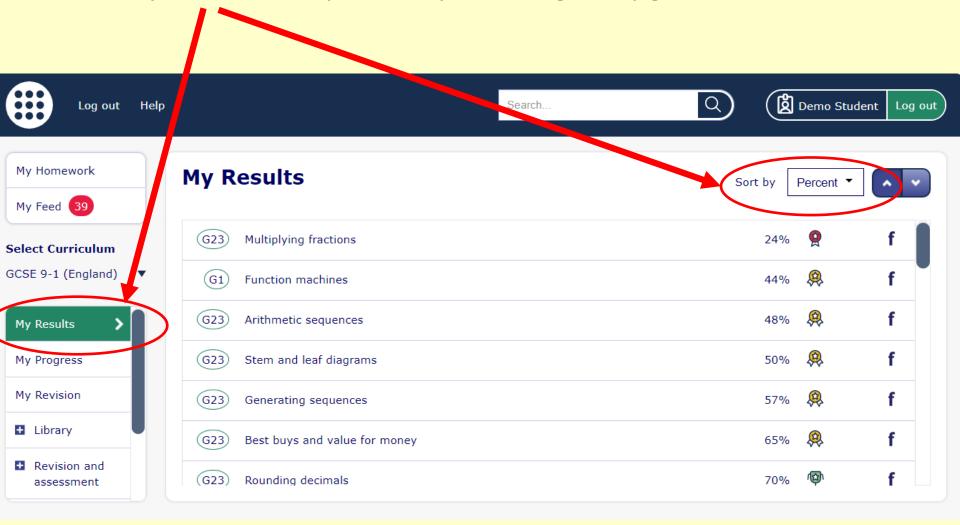


**School username:** bradfs **School password:** circle

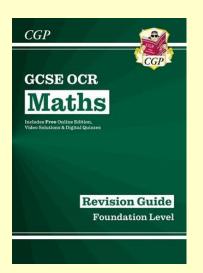
Ask Maths teacher for portal login and portal password:

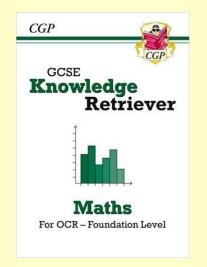
## Mymaths.co.uk - Student portal

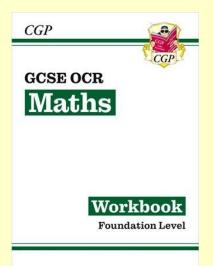
Sort your results by lowest percentage – upgrade this work

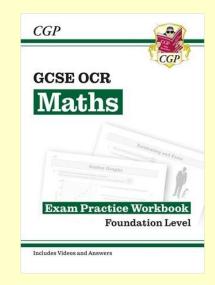


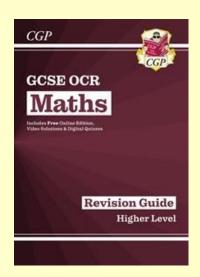
# Make use of revision guides

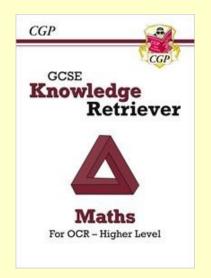


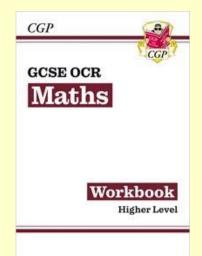


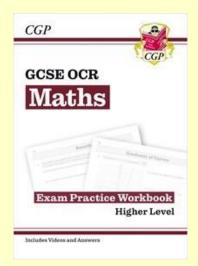






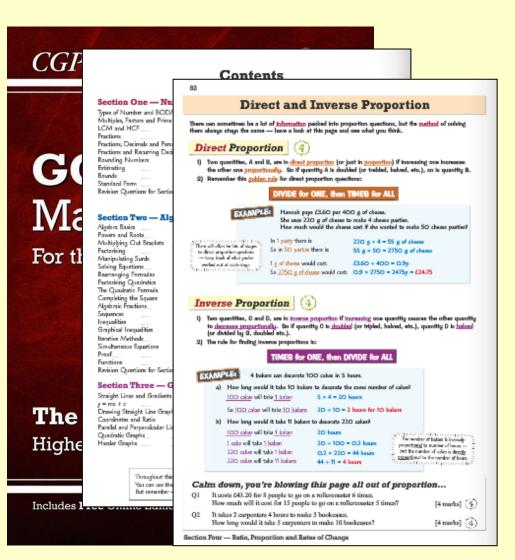






These are available via from CGP

# Make use of revision guides



- Look up key concepts
- Use to make accurate flash cards

The guides may not tell you exactly how to do an exam question but they can remind you of methods that might help.

# Exa

# Four

### Contents

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✓ Use the tick by

How to Use This Bo Exam Tips....

Section One

Ordering Numbers

Addition and Subtra

Multiplying and Div

Multiplying and Div

Multiplying and Div Negative Numbers. Special Types of Nur

Prime Numbers, Mu

Prime Factors, LCM Fractions, Decimals

Equivalent Fractions

Proportion Problems

Rounding Off and E

Powers and Roots\_

Section Two

Simplifying Terms...

Multiplying Out Bra Taking Out Commo Solving Equations...

Writing Equations...

Using Formulas....

Writing and Rearran Number Patterns an

Trial and Improvemen

Section Three

Coordinates and Mi

Straight-Line Graph:

Conversion Graphs. Real-Life Graphs....

Quadratic Graphs...

Section Four Symmetry and Tessel

Properties of 2D Shi Congruence and Sim

3D Shapes....

Projections....

Includes Answers, Fre

Travel Graphs...

Inequalities...

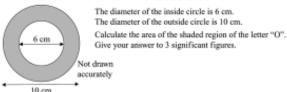
Fractions.

Ratios...

Percentages....

A letter "O" is formed by cutting a circular section from the centre of a circular piece of card.





[Total 4 marks]

FUNCTIONAL

Lucas has a square garden with sides of length 8 metres. The garden contains a circular paved area.



Lucas wants to sow grass seed on the unpaved parts (shaded below).



A packet of grass seeds will sow 0.5 m2 of grass. Calculate the number of packets that Lucas needs to buy. Area of square = \_\_\_\_\_ x \_\_\_\_ = \_\_\_\_ m<sup>2</sup>

Area of circle = π × = m <sup>2</sup>
Area of grass = = m <sup>2</sup>
Number of packets of grass seed = + O.5 =

[Total 6 marks]

STINCTIONAL

Zara is making cookies for a baking competition. She makes them exactly 10 cm in diameter.



Zara wants to decorate the cookies with chocolate buttons. She works out that there needs to be at least 3 cm2 for each button.

What is the maximum number of buttons that she can put on each cookie?



[Total 5 marks]

### Exam Practice Tip

Don't mix up radius and diameter - it seems obvious, but lots of people muddle them up in exams. The radius of a circle is half of its diameter. Think carefully about which one you're being given, and which one you need for a formula. You won't be given the formulas in the exam, so make sure you know them off by heart.



Section Four - Shapes and Area



**Practise key** concepts you've looked up in exam-style questions.

The work books are aligned to the guides and answers are on the sharepoint.

# In form time we have introduced the Leitner Method for using 'Flash Cards'

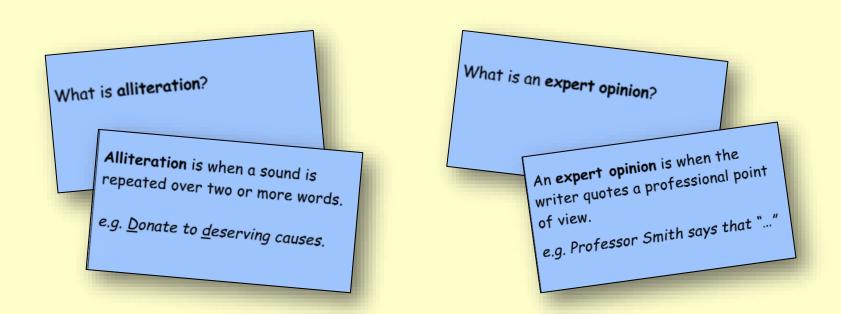
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# How to study flashcards

using the Leitner system

## Make 'Flash Cards'

This will help improve recall and retention of information. Great for A01 facts, definitions and formulae



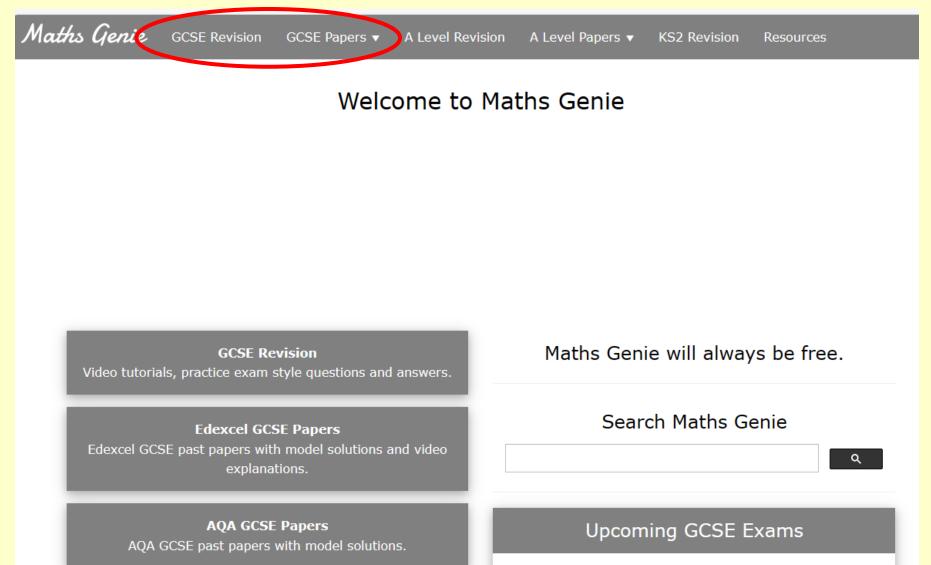
Flash cards are another method of self-quizzing. You can make them, buy them, or even find them online.

If you like to use online flashcards:



## **Useful Websites**

# mathsgenie.co.uk



### **Useful Websites**

### **Dr Frost Maths: Foundation OCR**

### **Dr Frost Maths Higher OCR**

### **Dr Frost Maths – Level 2 Certificate: Further Maths AQA**



### OCR 1 Number Operations and Integers

- 1.01 Calculations with integers
- 1.02 Whole number theory
- 1.03 Combining arithmetic operations
- 1.04 Inverse operations

### OCR 2 Fractions, Decimals and Percentages

- 2.01 Fractions
- 2.02 Decimal fractions
- 2.03 Percentages
- 2.04 Ordering fractions, decimals and percentages

### OCR 3 Indices and Surds

- 3.01 Powers and roots
- 3.02 Standard form
- 3.03 Exact calculations



### OCR 4 Approximation and Estimation

4.01 Approximation and estimation

### OCR 5 Ratio, Proportion and Rates Of Change

- 5.01 Calculations with ratio
- 5.02 Direct and inverse proportion
- 5.03 Discrete growth and decay

### OCR 6 Algebra

- 6.01 Algebraic expressions
- 6.02 Algebraic formulae
- 6.03 Algebraic equations
- 6.04 Algebraic inequalities
- 6.05 Language of functions
- 6.06 Sequences

### OCR 7 Graphs of Equations and Functions

- 7.01 Graphs of equations and functions
- 7.02 Straight line graphs

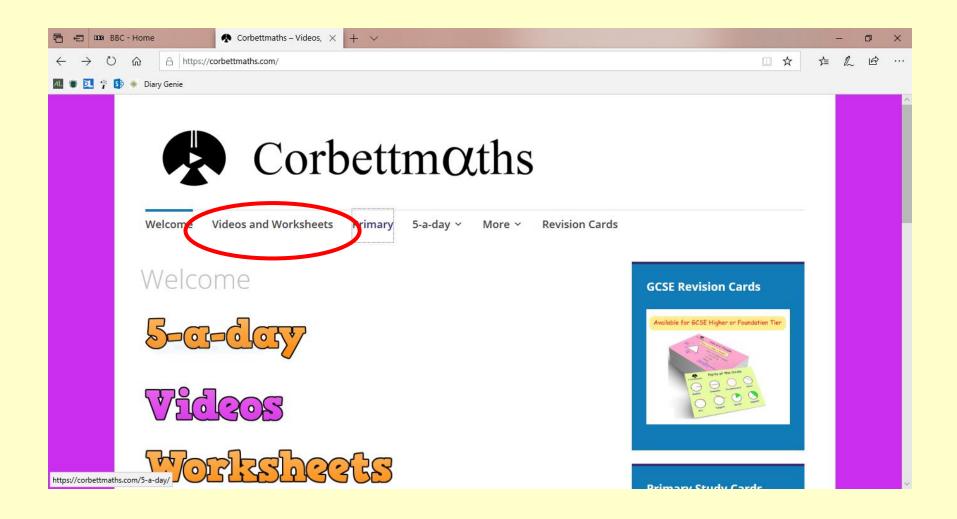
### OCR 8 Basic Geometry

- 8.01 Conventions, notation and terms
- 8.02 Ruler and compass constructions

### OCR 9 Congruence and Similarity

- 9.01 Plane isometric transformations
- 9.02 Congruence

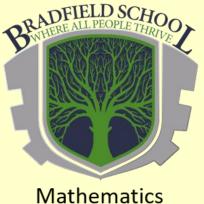
# Useful Websites corbettmaths.com



# What can parents do to support?

- Ensure there is time and space to work
- Provide access to equipment (pens, pencils, ruler, protractor, compasses, scientific calculator.
- Support in making and keeping to a revision timetable
   30 minute of maths every day.
- Don't worry about 'new' vs. 'old' methods any method that leads logically to a correct answer is a correct method.





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