

# How to support your child for the maths GCSE

# Regular Revision is key

But how will you know what topics to revise?

Students will be entering their exam data into pinpoint learning. This then builds up a picture over time of the topics they need to work on

The screenshot displays a user interface for a 'Virtual Folder'. At the top, a dark blue header contains the text 'Your Virtual Folder' in white, with the subtitle 'All your tests, class comparisons and solutions in one place.' below it. The main content area is white and shows a list of completed GCSE papers. One paper is highlighted in light blue, with the title '9to1\_GCSE\_OCR\_Nov2019\_2F'. Below this, a dark blue button reads 'Video Solutions Link: Available For This Test'. At the bottom, there are three colored buttons: a green one for 'My Best Performing Topics', an orange one for 'My Relative Weak Topics', and a light blue one for 'Test Paper Qn Order'.

**Your Virtual Folder**  
All your tests, class comparisons and solutions in one place.

completed GCSE papers

9to1\_GCSE\_OCR\_Nov2019\_2F

Video Solutions Link: Available For This Test

My Best Performing Topics    My Relative Weak Topics    Test Paper Qn Order

# The Maths Matrix

A dynamic student progress tracking system created using real data from actual exams for everyone

Grade	Mwatch	Topic	Edexcel Summer2019 1H	Nov2017 GCSE 1H	Nov2017 GCSE 3H	Mock Set4 1H	GCSE Nov2018 1H	Conclusion
2	78	Product of Prime Factors	-	100% ★	-	100% ★	-	Consistent Strength
3	39	Proportion and Ratio Recipe Problems	100% ★	-	-	-	-	Tested Once Only
3	71, 73 and 74	Mixed Numbers	100% ★	-	-	-	-	Tested Once Only
3	131	Simple Index Form	-	-	-	100% ★	100% ★	Consistent Strength
3	109	Percentage Change and Reasoning	-	-	-	-	100% ★★★	Tested Once Only
3	128b	Interpreting Stem and Leaf	-	-	-	0% ★★	-	Tested Once Only
4	NA	Probability from tables	100% ★	-	50% ★★	100% ★	-	Investigate your progress
4	125	Probability and Frequency	100% ★	-	-	-	-	Tested Once Only

# Personalised Booklet

16 page booklets with GCSE questions on student's five weakest areas from each past paper, differentiated automatically by ability

1. A shop offers 25% discount on its products in the January Sale. A Sofa costs £450 in the sale. How much did it cost originally?

..... (3)

2. A low fat yoghurt claims to have 20% less fat than its full fat equivalent. The low fat yoghurt has 12g of fat. How much does the full fat equivalent have?

..... (3)

3. A telephone company comes up with a strategy that reduces their customers wait time by 30%. After they have implemented the strategy a customer waits for 14 minutes. How long would they have waited for before the strategy was implemented?

# Personalised Retests

Personalised 20 minute tests on the 6 easiest questions students got wrong in any paper, this will then deduce if they have improved

# Sparx maths

## Student Login

You're logging in to Sparx at **Shenley Brook End School**.

[Not your school?](#)

Log in to Sparx using Microsoft 

or

Use your Sparx login

Username:

Password:

 [Show](#)

[Forgotten Sparx login details?](#)

Log in

Students should now be able to log in using their Microsoft school account.

# Sparx Maths

★  
Compulsory

## Hey M

This is your

XP Boost

Target

Independent Learning

## Independent Learning

Find topics

My activity

Search for topics:

Enter topic name or code

Your curriculum:

Key Stage 3

Default level:

Level 2

Select a topic:

Number



Algebra

$x^2$

Ratio and Proportion

3:2

Geometry

Click here and then you can choose any topic. Each has questions and related video support

# Clip list for revision - [Sparx Revision Lists](#)

– Available for higher and foundation students

## Number

Topics	Clip Number	R	A	G
Ordering positive integers	13, 14			
Ordering negative integers	37			
Ordering decimals	45, 46			
Ordering fractions	60			
Addition and subtraction of positive integers	18, 19, 20			
Multiplication and division of positive integers	21, 22, 23, 144, 145			
Addition and subtraction of negative integers	38, 39, 40, 41			
Multiplication and division of negative numbers	42, 43			
Addition and subtraction of decimals	47			
Multiplication and division of decimals	48, 49, 50, 51, 135, 136			
Addition and subtraction of fractions	65, 66			
Multiplication and division of fractions	67, 68, 69, 70, 71, 72			
Place value: multiplying and dividing by 10	15, 16			
Order of operations	24, 44, 120, 150			
Prime numbers, prime factorisation	28, 29, 30			
Factors, multiples, HCF and LCM	27, 31, 32, 33, 34, 35, 36			
Powers and roots	99, 100, 101			
Using standard form	121, 122, 123, 124			
Calculating with standard form	125, 126, 127, 128			
Converting decimals to/from fractions	52, 53, 73, 74, 149			
Converting percentages to/from fractions	75, 76, 82, 149			
Converting percentages to/from decimals	55, 83			
Simplifying fractions	59, 61			
Mixed numbers and improper fractions	63, 64			
Fractions of amounts	62, 77			
Increasing/decreasing by fractions	78, 79			
Fraction problems	80			
Percentages of amounts	84, 85, 86, 87			
Percentage increase/decrease	88, 89, 90			

## Algebra

Topics	Clip Number	R	A	G
Algebraic expressions	151, 152, 153			
Collecting like terms	156, 157			
Multiplying and dividing algebra	158, 159			
Substitution	155, 780, 781			
Algebra terminology	154			
Expanding brackets	160, 161			
Factorising expressions	167, 168, 169, 170, 171			
Index laws	173, 174			
Changing the subject	280, 281, 282, 283, 284			
Coordinates	199			
Midpoints	200			
Plotting straight line graphs	205, 206, 207			
Gradient	201, 202			
Distance-time graphs	Coming soon			
Sketch quadratic graphs	251, 257			
Linear equations	176, 177, 178, 179, 180, 181, 182, 183, 188, 189			
Linear equations on graphs	217			
Quadratic expressions	222			
Linear sequences	196, 197, 198			
Other sequences	261			

## Ratio and proportion

Topics	Clip Number	R	A	G
Scale diagrams	864, 865, 866, 867, 868, 869			



**5-a-day**

**Videos**

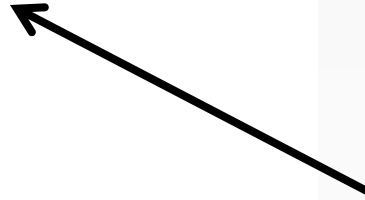
**Worksheets**

**Practice Papers**

**Practice Questions**

**A-level 5-a-day**

**Revision Cards**



These are being completed every lesson, there are plenty more to complete at home

Students can also access worksheets / past papers and practice questions which are all great for revision



These patterns are made of sticks



How many sticks will there be in Pattern 6?

Find the missing number

$$\frac{1}{2} \text{ of } 12 = \frac{2}{3} \text{ of } \dots\dots$$

Hannah is  $y$  years old.  
Martin is eight years older.

Write an expression for Martin's age.

Hannah is  $y$  years old.  
Beth is three times as old as Hannah.

Write an expression for Beth's age.

# So, what does this process of maths revision look like?.....

Pinpoint helps students identify what topics they need to revise.

They then use one or more websites / revision books to work on these topics

\* making sure they **do something with the information** -

flash cards, mindmaps, bullet points, diagrams etc

AND have some form of test at the end, ie try an exam question on that topic

Then either using past papers from websites or as part of our mock exams process, do a test and see what topics now need working on and start the process again 😊

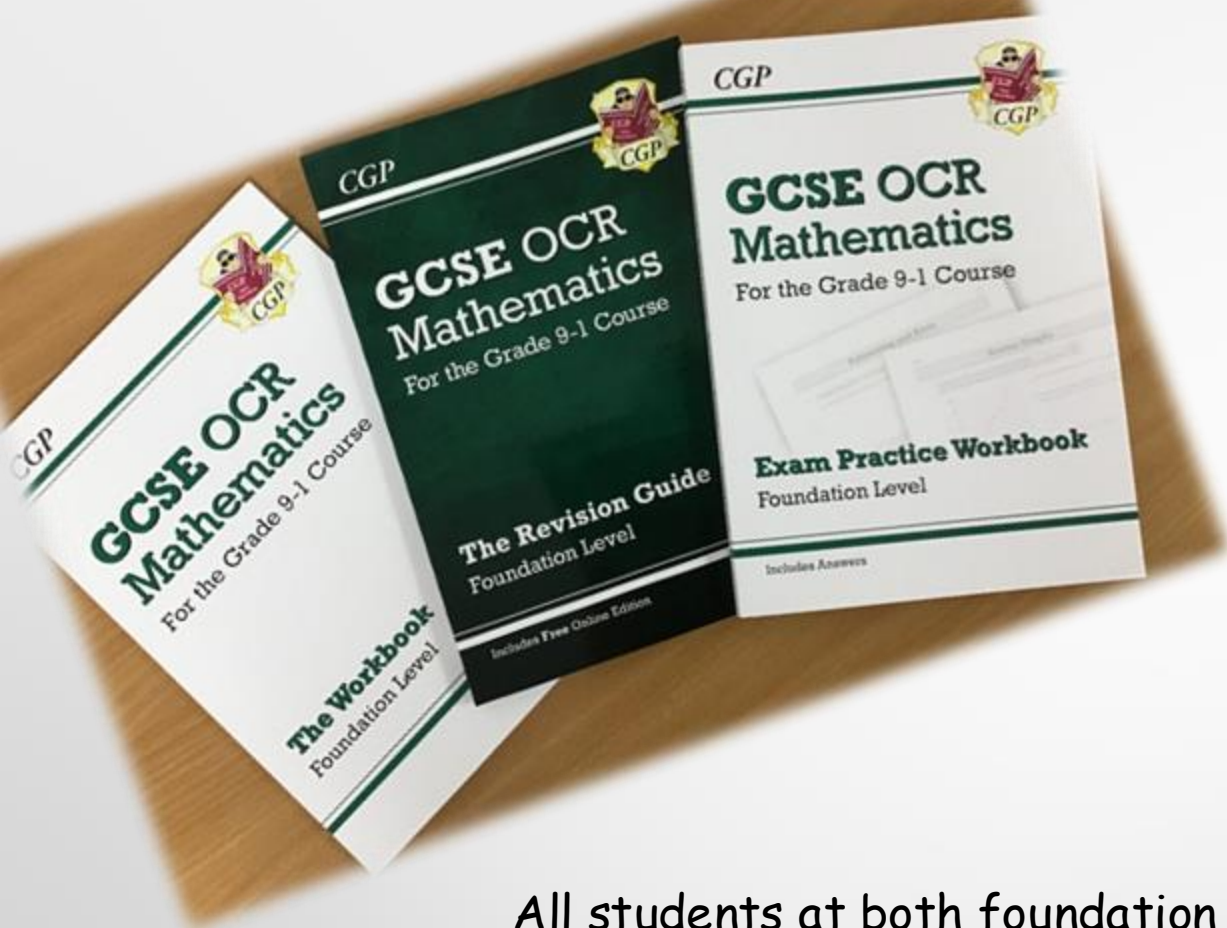
Other good websites.....

[Maths Genie - Free Online GCSE and A Level Maths Revision](#)

[GCSE Maths Revision on Mr Barton Maths](#)

[onmaths | The home of GCSE Maths](#)

[GCSE Maths Revision – GCSE Section of Revision Maths](#)



- Revision guide
- Workbook
- Exam practice workbook

All students at both foundation and higher tier will now do OCR exam board.  
If you already have edexcel books it is fine, very little difference in content between the exam boards, just in the way questions are worded

# Equipment - available to purchase via Arbor

- Black Pens
- Pencil
- Rubber
- Ruler
- Protractor
- Compass
- Calculator



## General Support

- Past paper exam practice
- Encourage full working out for all questions
- After each exam, sit down with your child and tick off topics that have already come up, highlighting some of the big topics that might have been missed off and may appear in the next exams.
- Get a good night's sleep before the exam
- And take a bottle of water (no label on it) into the exam, a small sip of water can really help keep focus / calm nerves