

Exam Success Evening

How to succeed in

Maths

Mr Baguley

Why is this important?

Numeracy is the ability to understand and use numbers, and it's important for many reasons, including:

Everyday life

Numeracy is used in many daily activities, such as telling time, cooking, and managing money.

Workplace

Numeracy skills are important in many workplace tasks, such as budgeting, performing calculations, and taking measurements.

Health and wellbeing

Research shows that higher numeracy skills lead to better health and wellbeing. For example, patients need to make objective decisions about their healthcare, such as whether to have an operation or take a drug.

Financial independence

Numeracy skills can help people make better financial decisions and achieve financial independence.

Cultural, social, economic, and technological advances

Numeracy plays an important role in enabling and sustaining these advances

5 Steps to success

- 1 - Have all the correct Equipment
- 2 - Use of Revision Lists pre Mocks
- 3 - Use of QLA post Mock
- 4 - Use of past paper homework for exam practice
- 5 - Additional websites for further resources and practice

Step 1 - Equipment

Students are expected to take the following equipment into the exam:

- Black Pens (students must write in black ink)
- Sharpened pencils
- Eraser
- Ruler
- Compasses
- Protractor
- Calculator (Papers 2 and 3)

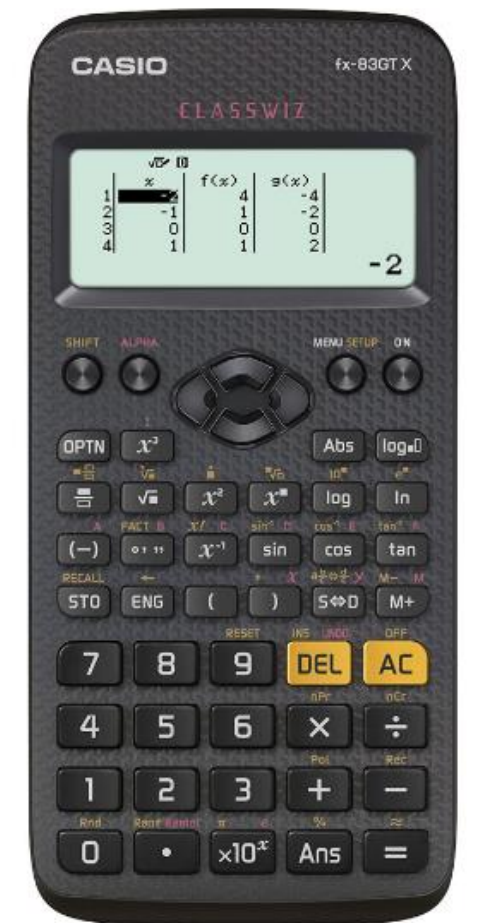


Preferred models



Casio FX-83GT CW Scientific Calculator

Students are recommended to have a scientific calculator that gives answers both in rationalised surd form and in decimal form



Casio FX-83GTX GCSE Scientific Calculator Black | Rapid Online

Step 2 - Revision Lists

Topic	Clip Number
Read and write positive integers	13
Round numbers to the nearest 10	17
Multiplication and division (worded problems)	23
Factors of a number	27
Prime factorization	30
Multiple of a number	33
Compare negative numbers	37
Adding and subtracting positive and negative numbers	41
Convert simple decimals to percentages	55
Compare fractions	60
Express one number as a fraction of another	62
Add or subtract fractions	65
Subtract fractions	65
Multiplying fractions	69

A comprehensive revision list is given to the students to them focus revision

Sparx clip numbers are given to direct them towards supporting videos and questions to help them to revise for these questions.

A long list so students can RAG rate where they fit with these skills and prioritise

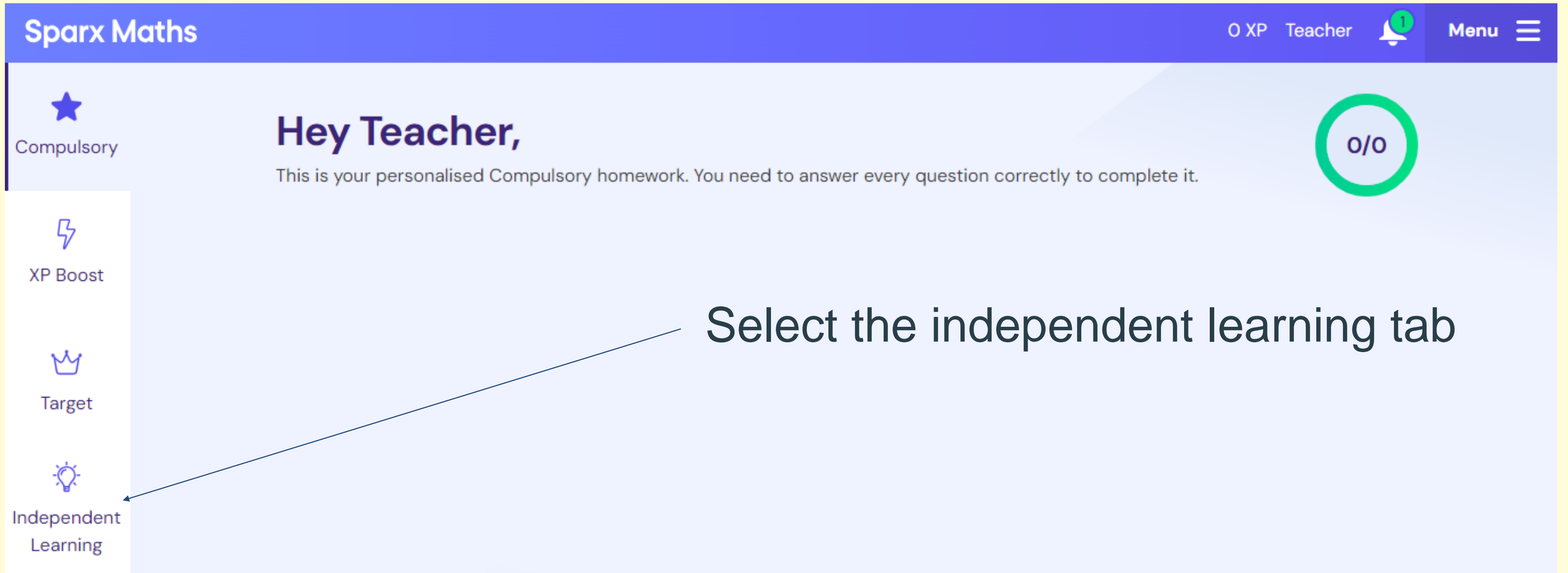
Step 3 - Using QLA Post Mock

Question	Question Title	Score	Clip Number
1	Factor of 1000000	1	1000000
2	Factor of 1000000	1	1000000
3	Factor of 1000000	1	1000000
4	Factor of 1000000	1	1000000
5	Factor of 1000000	1	1000000
6	Factor of 1000000	1	1000000
7	Factor of 1000000	1	1000000
8	Factor of 1000000	1	1000000
9	Factor of 1000000	1	1000000
10	Factor of 1000000	1	1000000
11	Factor of 1000000	1	1000000
12	Factor of 1000000	1	1000000
13	Factor of 1000000	1	1000000
14	Factor of 1000000	1	1000000
15	Factor of 1000000	1	1000000
16	Factor of 1000000	1	1000000
17	Factor of 1000000	1	1000000
18	Factor of 1000000	1	1000000
19	Factor of 1000000	1	1000000
20	Factor of 1000000	1	1000000
21	Factor of 1000000	1	1000000
22	Factor of 1000000	1	1000000
23	Factor of 1000000	1	1000000
24	Factor of 1000000	1	1000000
25	Factor of 1000000	1	1000000
26	Factor of 1000000	1	1000000
27	Factor of 1000000	1	1000000
28	Factor of 1000000	1	1000000
29	Factor of 1000000	1	1000000
30	Factor of 1000000	1	1000000
31	Factor of 1000000	1	1000000
32	Factor of 1000000	1	1000000
33	Factor of 1000000	1	1000000
34	Factor of 1000000	1	1000000
35	Factor of 1000000	1	1000000
36	Factor of 1000000	1	1000000
37	Factor of 1000000	1	1000000
38	Factor of 1000000	1	1000000
39	Factor of 1000000	1	1000000
40	Factor of 1000000	1	1000000
41	Factor of 1000000	1	1000000
42	Factor of 1000000	1	1000000
43	Factor of 1000000	1	1000000
44	Factor of 1000000	1	1000000
45	Factor of 1000000	1	1000000
46	Factor of 1000000	1	1000000
47	Factor of 1000000	1	1000000
48	Factor of 1000000	1	1000000
49	Factor of 1000000	1	1000000
50	Factor of 1000000	1	1000000

Question Level Analysis (QLA) to help the students target where intervention and skills gaps exist

Sparx clip numbers linked to this to enable students to find supporting questions and videos to explain the skills and concepts

Step 3 - Using QLA Post Mock



The screenshot shows the Sparx Maths interface. At the top, there is a blue header with the text "Sparx Maths" on the left, "0 XP Teacher" in the center, a notification bell icon with a "1" on the right, and a "Menu" button with a hamburger icon on the far right. Below the header, the main content area has a light blue background. On the left side, there is a vertical sidebar with four tabs: "Compulsory" (with a star icon), "XP Boost" (with a lightning bolt icon), "Target" (with a crown icon), and "Independent Learning" (with a lightbulb icon). The "Independent Learning" tab is highlighted with a white background and a blue border. To the right of the sidebar, the text "Hey Teacher," is displayed in a large, bold font, followed by a smaller line of text: "This is your personalised Compulsory homework. You need to answer every question correctly to complete it." To the right of this text is a green circular progress indicator showing "0/0".

Select the independent learning tab

Step 3 - Using QLA Post Mock

The screenshot shows the Sparx Maths website interface. At the top, the header includes the Sparx Maths logo, 'Independent Learning', user information (0 XP, Teacher), a notification bell, and a menu icon. On the left sidebar, there are navigation options: Compulsory (star icon), XP Boost (lightning bolt icon), Target (crown icon), and Independent Learning (lightbulb icon). The main content area is titled 'Independent Learning' and features two tabs: 'Find topics' (active) and 'My activity'. Below the tabs, there are three search and filter fields: 'Search for topics:' with a text input field containing the placeholder 'Enter topic name or code'; 'Your curriculum:' with a dropdown menu set to 'Key Stage 3'; and 'Default level:' with a dropdown menu set to 'Level 2'. Below these fields, there are two large blue buttons for topic selection: 'Number' with mathematical symbols (÷, +, ×, -) and 'Algebra' with the symbol x^2 . A blue arrow points from the text 'Enter the Sparx code' to the 'Search for topics:' input field.

Step 3 - Using QLA Post Mock

Constructing a perpendicular bisector

Introduce

Question 1 **Answer** Question 2 **Answer** Question 3 **Answer** Question 4 **Answer** Question 5 **Answer**

Strengthen

Question 1 **Answer** Question 2 **Answer** Question 3 **Answer** Question 4 **Answer** Question 5 **Answer**

Deepen

Question 1 **Answer** Question 2 **Answer** Question 3 **Answer**

3 Levels of questions to aid revision and practice

Step 4 - Past Paper Homeworks

Past papers will be issued as homework. As well as Sparx

Week Commencing	Paper Issued - Mr Lane and Google Classroom
SP1920	Set 1 Paper 1
HALF TERM	
SP1920	Set 1 Paper 2
SP1920	Set 1 Paper 3
YEAR 11 PERIOD	
SP1920	Set 2 Paper 1
SP1920	Set 2 Paper 2
COURSE END HOLIDAYS	

**GCSE Mathematics
Practice Tests: Set 1**

Paper 1H (
Time: 1 hour 30
You should have: ruler
protractor, pair of compass

Issued: WYC

**GCSE Mathematics
Practice Tests: Set 1**

Paper 2H (
Time: 1 hour 30
You should have: ruler
protractor, pair of compass

Issued: WYC

**GCSE Mathematics
Practice Tests: Set 1**

Paper 3H (Calculator)
Time: 1 hour 30 minutes

You should have: ruler graduated in centimetres and millimetres,
protractor, pair of compasses, pen, HB pencil, eraser, calculator.

Issued: WYC 20.03.17 Due: WYC 27.03.17

As well as Sparx homeworks set each week students will be expected to complete past papers. These will be uploaded to the google classroom for students to print and complete.

Step 4 - Past Paper Homeworks

Question	Topic	Marks	My Score	Silly Mistakes	Sparx
1	Two way tables	3			U981
2	Ratio percentage and fractions	3			U176
3	Constructions	2			U787
4	Quadratic Graphs	3			U919
5	Compound Perimeter	3			U904
6	Plans, views and elevations	2			U743
7	Standard Index form	4			U330
8	<u>Y=mx+c</u>	2			U313
9	Compound interest/depreciation	3			U512
10	Scatter Graph	3			U199

The past papers have topics referenced against each questions and Sparx clips to help students to complete the questions

Step 5 - Additional Websites

Recommended Websites

Access Maths

<http://www.accessmaths.co.uk/>

Maths Genie

<https://www.mathsgenie.co.uk/gcse.html>

Other useful Website:

<http://corbettmaths.com/>

<http://studymaths.co.uk/gcsequestions.html>

<http://www.mrbartonmaths.com/pupils.htm>

<https://www.revisegcsemaths.co.uk/>

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

How are you going to implement this learning?

1. Ensure that you have the correct equipment and are familiar how to use it.
2. Download the revision lists for the upcoming Mock Exams. RAG rate the topics and the use the Sparx references to practice those which you have rated Amber and Red
3. Post Mock you will get a QLA sheet. The will show areas of strength (Green) and Weakness (Red) This will give you a focus and specific topic areas you need to work on for the next mock.
4. Complete past paper homeworks. If there are questions you are unsure of use the Sparx links and topic list to look up the skills needed to complete the questions
5. Additional resources to help aid more revision with more exam style questions