St Alban's – Mathematics

Rob Silk – Head of Faculty

GCSE Mathematics

Edexcel Higher Tier (Grades 3-9)

Sets 1, 2 & 3*

(*All students in set 3 are currently all entered for Higher but this may be changed to Foundation if there is insufficient evidence that students are working at the Higher level required)

Edexcel Foundation Tier (Grades 1-5)

Sets 4, 5 & 6

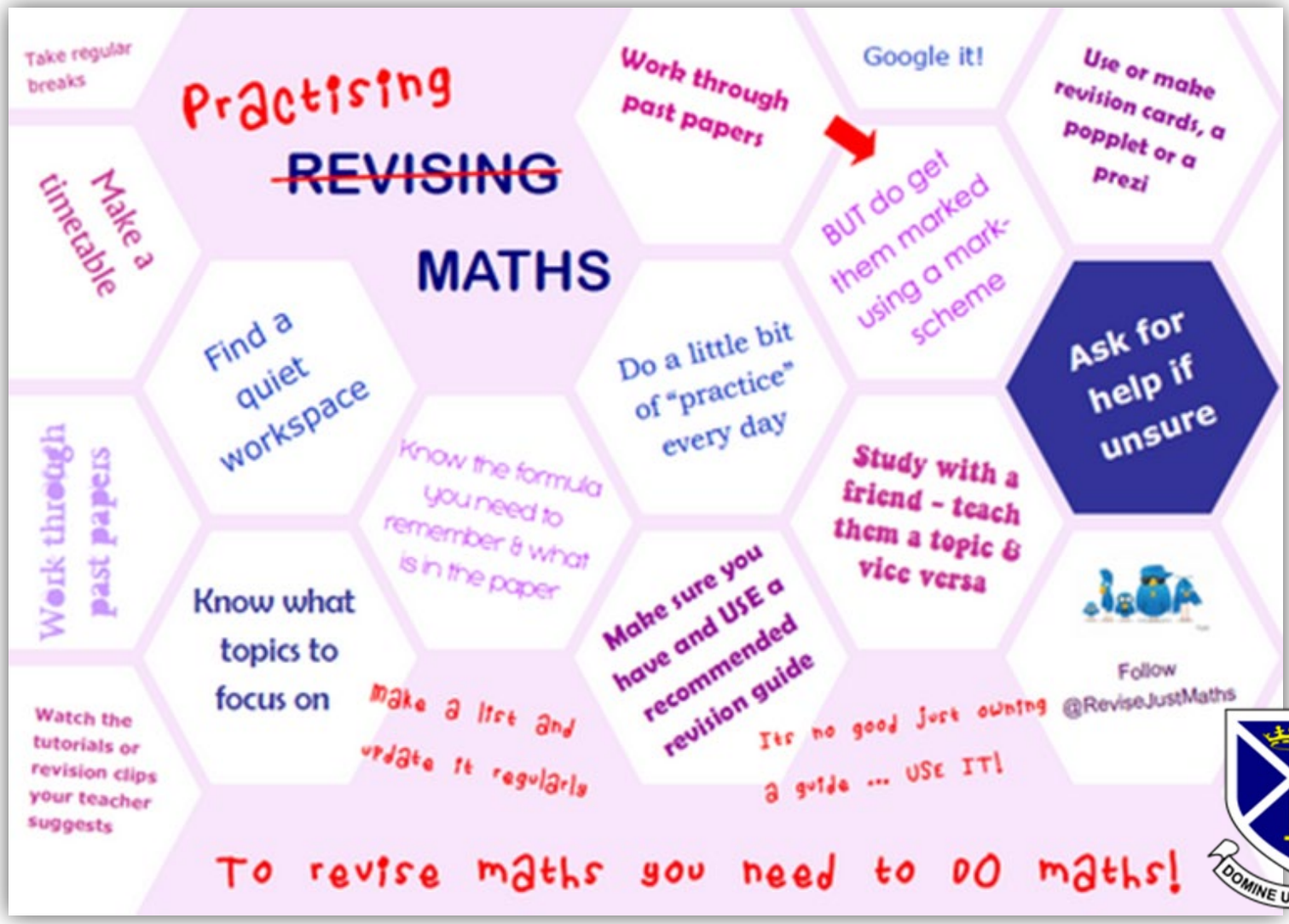
Exam Format

- 100% Exam

- 3 x Papers
  - 1 hour 30 minutes each
  - Paper 1 – Non calculator
  - Paper 2 – Calculator
  - Paper 3 – Calculator

PPEs will follow the exact same format

How to improve at Maths



Maths – What are the best resources for students?

- hegartymaths
  - Topic specific revision, videos and quizzes.

- **IpswichMaths.co.uk** & **MathsGenie.co.uk**
  - Past Papers, mark schemes, video screencasts

- **StAlbansMaths.co.uk**
  - Links to loads more useful websites and resources

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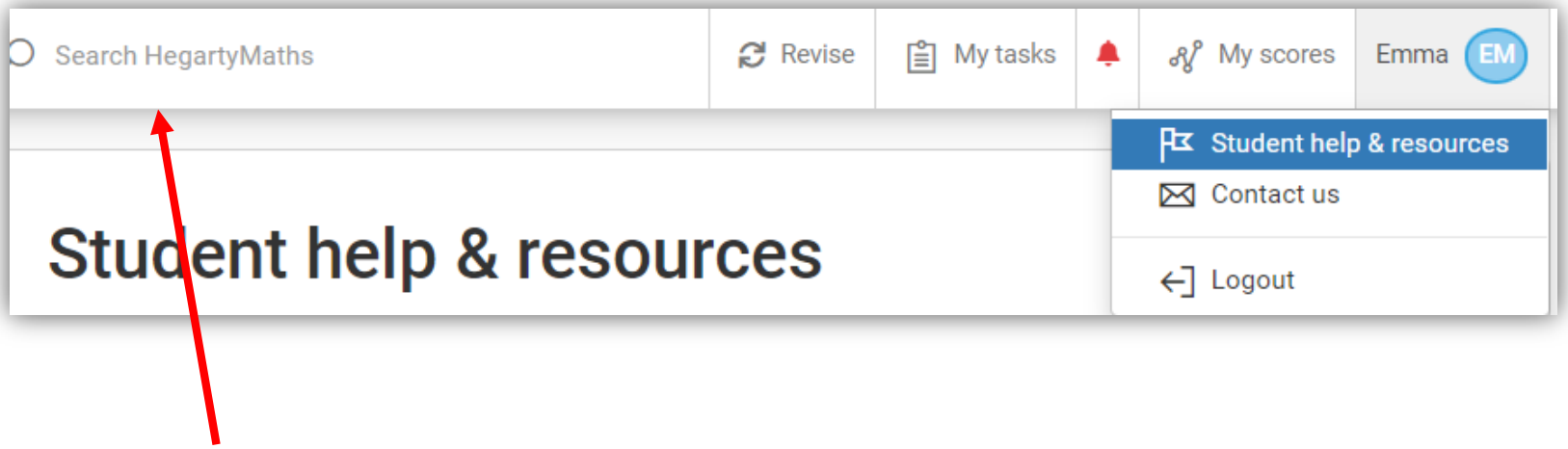
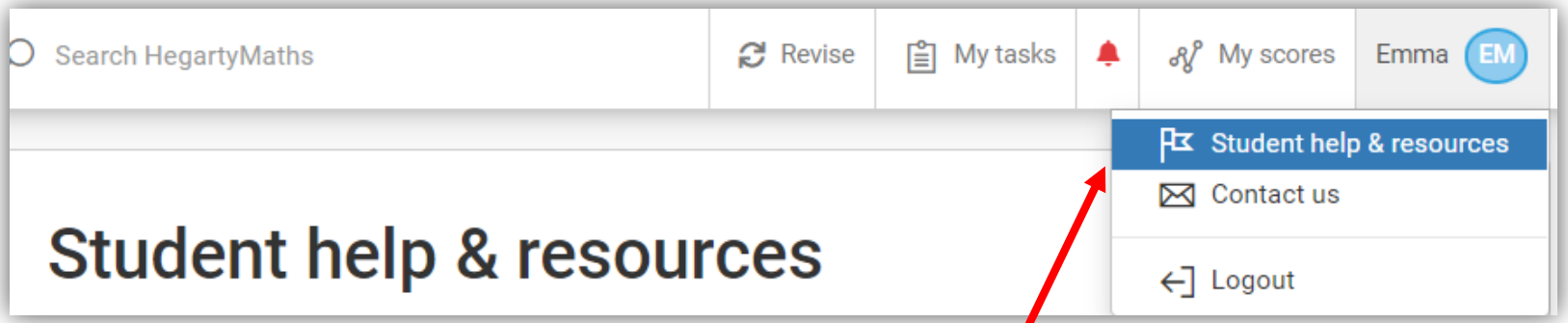
Top hegartymaths Features

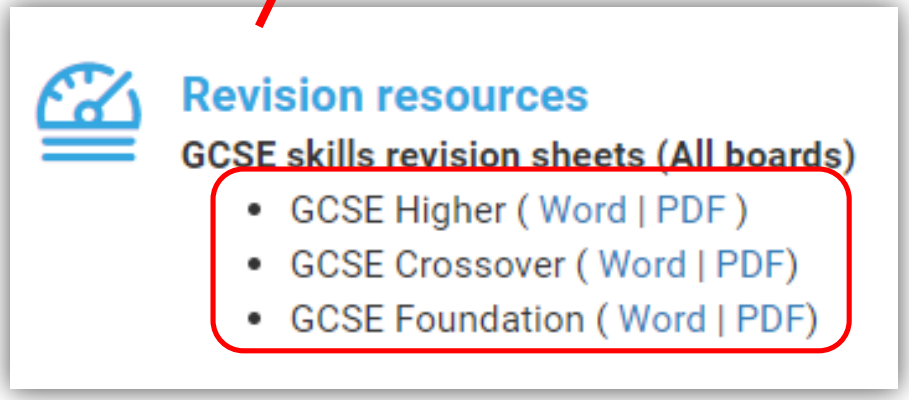


Type a topic number
or topic name here

URL *- www.hegartymaths.com*

Top hegartymaths Features





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Top hegartymaths Features

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Foundation Skills List

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			

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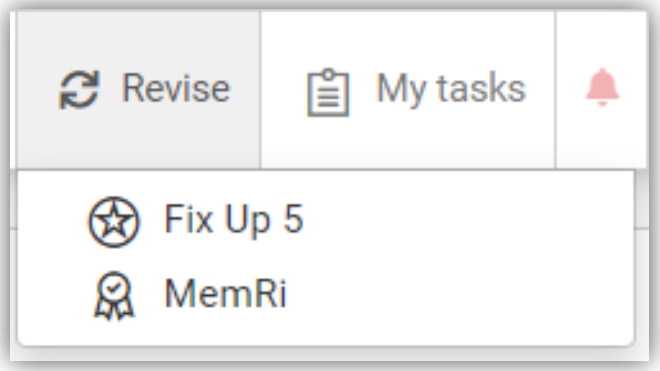
Top hegartymaths Features

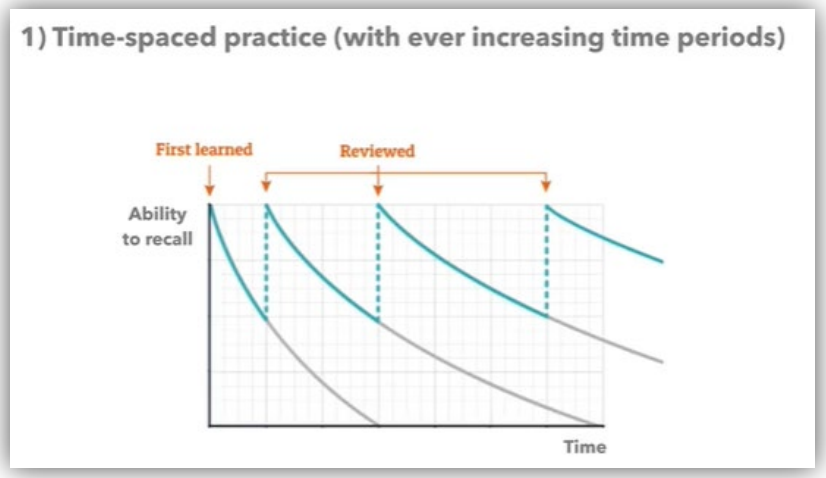
Fix Up 5 Quizzes

- Fix Up 5 will give students 5 questions they previously got wrong, to repeat and improve on.



MemRi Quizzes

- MemRi quizzes are made up of 10 questions students answered correctly before.
- This 'retrieval practice' is proven to be a highly effective revision tool



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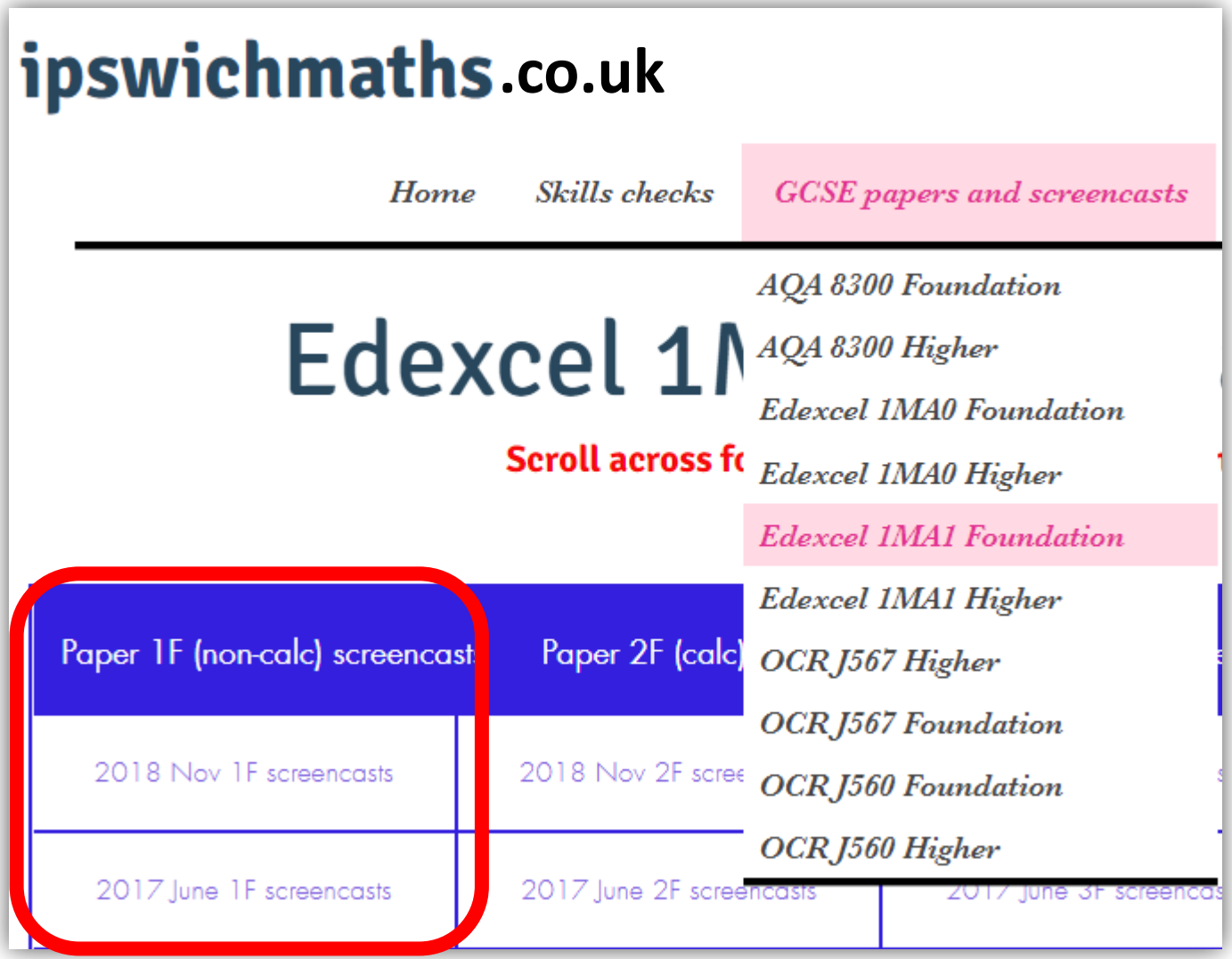


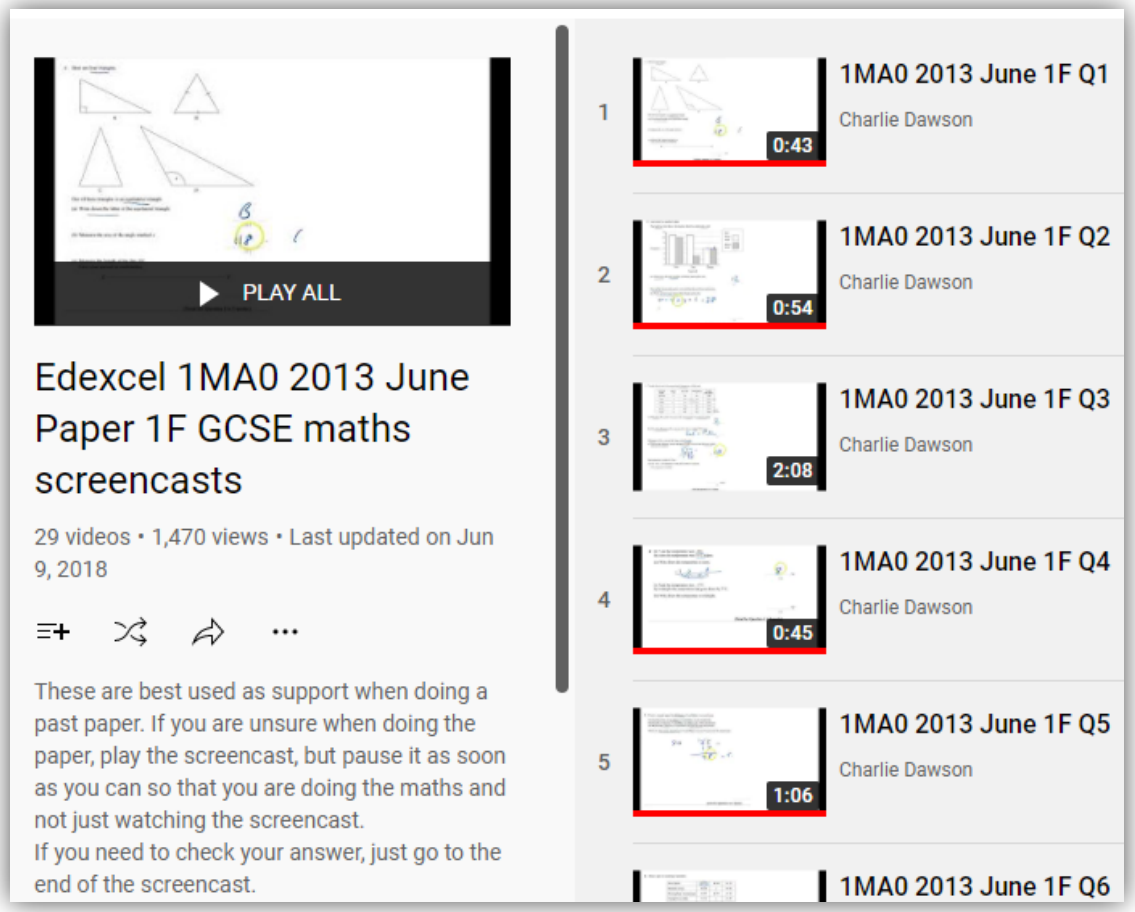
Screencasts explain how to answer unattempted or incorrect answers

Screencasts for Past Paper Practice

1) Students should attempt as much of a paper as possible **without** any help.

2) They should then fully mark the papers.

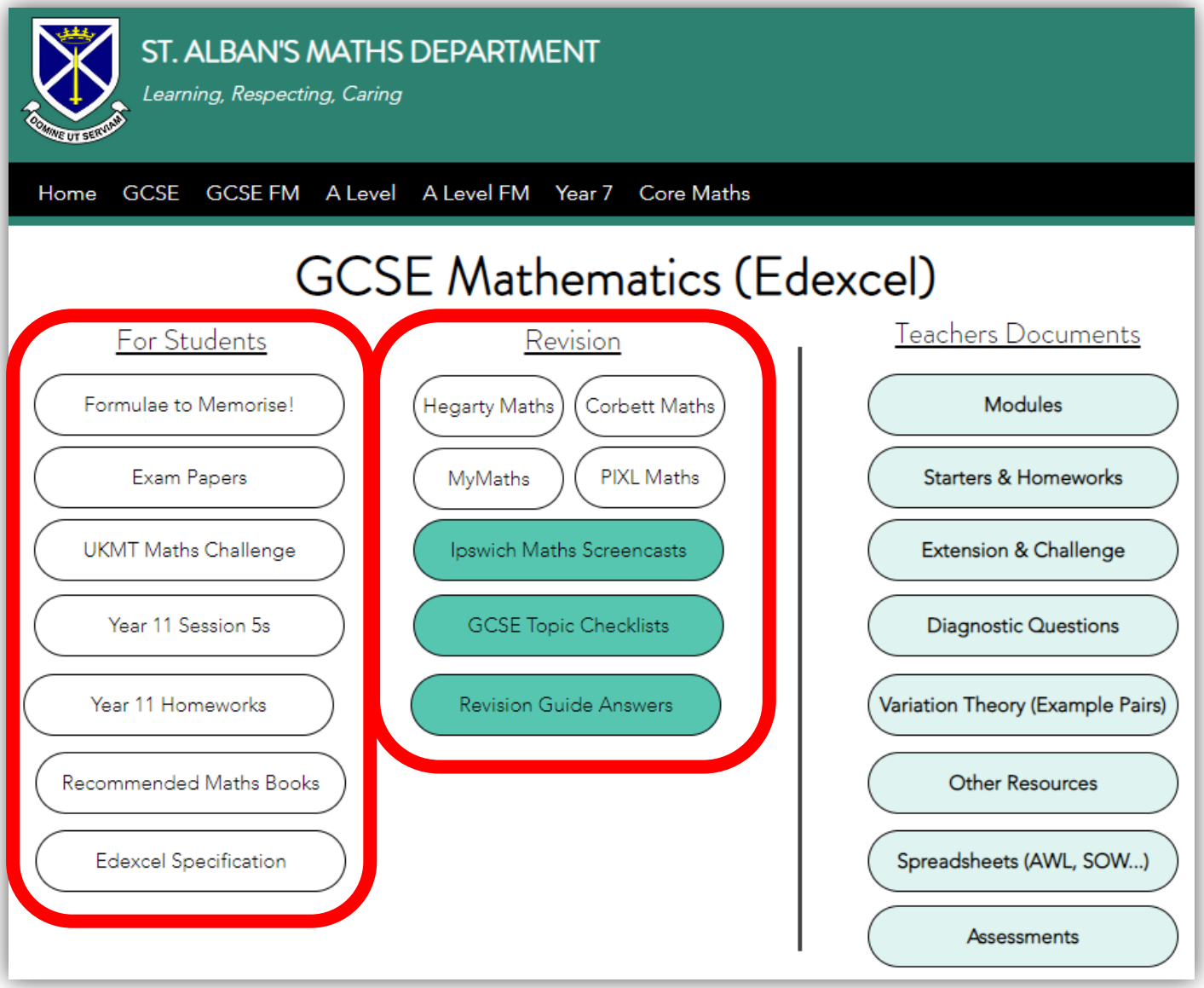
3) Then they should watch the video screencasts for the questions which were unattempted or incorrect, writing the solutions in a **green pen.**



Most weekly homeworks will be a past paper.

www.StAlbansMaths.co.uk

www.stalbansmaths.co.uk



After the Pre-Public Exams

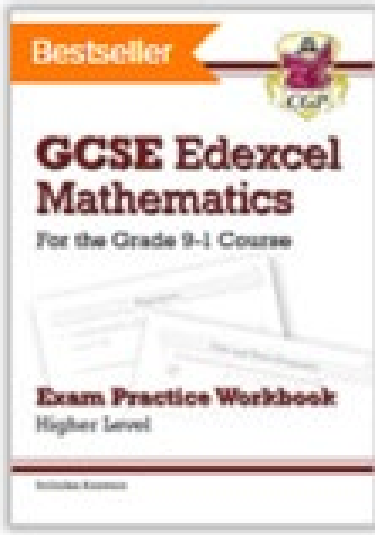
Effective Intervention after PPEs

- Using the PPE Analysis sheets to 'fix' topics using hegartymaths
- These will be emailed to all students and all parents

Questions	Question Title	Score	Clip Number
1	Convert fractions to percentages	1 / 1	76
2	Round decimal numbers	1 / 1	56
3	Index form	1 / 1	102
4	Place value	0 / 1	13
5a	Converting length	1 / 1	692
5b	Converting capacity/volume	1 / 1	698
5c	Converting mass	0 / 1	695
6	Factors, multiples, odd and even numbers	3 / 3	27, 33, 25
7	Systematic listing	2 / 2	670
8	Money	3 / 5	744, 745
9a	Speed	2 / 2	716
9b	Speed	2 / 2	719
10a	Prime numbers	2 / 2	28
10b	Prime numbers	0 / 1	28
11a	Collect like terms, solve 1-step equations	1 / 1	156, 178
11b	Solve 1-step equations	1 / 1	178
11c	Solve 2-step equations	1 / 1	179
12	Pie charts	1 / 3	427
13	Probability of an event not happening	2 / 2	353
14	Frequency trees	3 / 3	368
15a	Angles in a triangle	0 / 1	486
15b	Alternate angles	0 / 1	481
16	Data collection sheets (tally charts)	3 / 3	401

Maths – Support

- **Maths revision sessions**
  - **Every Monday** after school in maths classrooms



- **CGP Practice Workbooks**
  - Available to buy on ParentMail

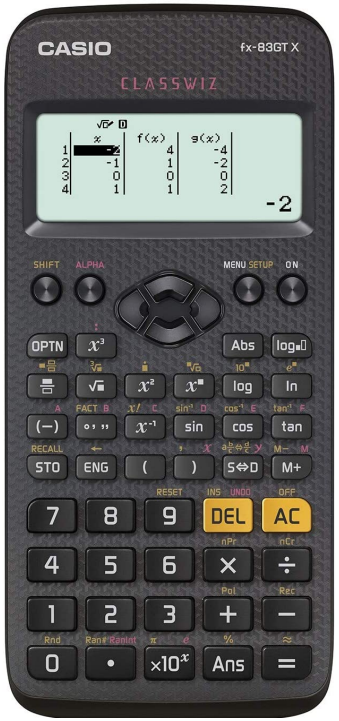
Maths Equipment Needed

- Calculator
  (recommended *Casio FX-83GTX)*
- Pen & Pencil
- Ruler
- Rubber
- Pair of Compasses
- Protractor
- Clear Pencil Case

Can be purchased from ParentMail. Delivered to form room.

£3 *– without calculator*

£12 *– with calculator*



Thank you for your support

If you have any questions or need any help, please feel free to email

hegartymaths

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ST. ALBAN'S MATHS DEPARTMENT

Learning, Respecting, Caring