

# Y11 Mathematics

Information Evening  
January 22<sup>nd</sup> 2018



# GCSE Mathematics Tiers of Entry

- ▶ Foundation tier levels 1 - 5, sets 3 and 4
- ▶ Higher tier levels 5 - 9, sets 1 and 2

# How the grading works.

New grading structure	Current grading structure
9	
8	A*
7	A
6	B
5	
4	C
3	D
2	E
1	F
	G
U	U

**GOOD PASS (DfE)**  
5 and above = top of C and above

**AWARDING**  
4 and above = bottom of C and above

# Students sit three separate papers:

Paper 1: non-calculator	+	Paper 2: calculator	+	Paper 3: calculator
<b>What's assessed</b> Content from any part of the specification may be assessed		<b>What's assessed</b> Content from any part of the specification may be assessed		<b>What's assessed</b> Content from any part of the specification may be assessed
<b>How it's assessed</b> <ul style="list-style-type: none"><li>• written exam: 1 hour 30 minutes</li><li>• 80 marks</li><li>• non-calculator</li><li>• 33⅓% of the GCSE Mathematics assessment</li></ul>		<b>How it's assessed</b> <ul style="list-style-type: none"><li>• written exam: 1 hour 30 minutes</li><li>• 80 marks</li><li>• calculator allowed</li><li>• 33⅓% of the GCSE Mathematics assessment</li></ul>		<b>How it's assessed</b> <ul style="list-style-type: none"><li>• written exam: 1 hour 30 minutes</li><li>• 80 marks</li><li>• calculator allowed</li><li>• 33⅓% of the GCSE Mathematics assessment</li></ul>
<b>Questions</b> A mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as a student progresses through the paper.		<b>Questions</b> A mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as a student progresses through the paper.		<b>Questions</b> A mix of question styles, from short, single-mark questions to multi-step problems. The mathematical demand increases as a student progresses through the paper.

# GCSE MATHS EXAM DATES - for both Higher and Foundation Papers

- |           |                |              |
|-----------|----------------|--------------|
| ▶ Paper 1 | Non-calculator | 24 May 2018  |
| ▶ Paper 2 | Calculator     | 07 June 2018 |
| ▶ Paper 3 | Calculator     | 12 June 2018 |

# New GCSE Maths: Revision is vital

- ▶ **Maths is more difficult.** Topics have moved from the Higher to Foundation tier and A level topics now appear in Higher tier
- ▶ **Foundation** additional material includes Simultaneous Equations, Trigonometry, Standard Form, Factorising Quadratics
- ▶ **Higher** additional material includes Iteration, Proofs, Inverse and Composite Functions
- ▶ **There is also ‘more of it’.** Over a third more content

*‘To do well at maths you need to do maths’*

Our most successful students last year started a planned revision schedule, starting in January or earlier, and attended regular after-school sessions

# SUPPORTING HOMEWORK

- ▶ All students are given a ‘ZigZag’ exam paper to complete each week outside of lesson time.

Students have about a week to complete these, and should take advantage of the support and revision resources available to help them complete all work set to the best of their ability.

- ▶ Additional homework will be set as required.

# MATHS SUPPORT IN SCHOOL

- ▶ Targeted intervention sessions Friday lunch in room L12.
- ▶ After-school session every Tuesday in room L31.
- ▶ Level 8 & 9 extension sessions after school every Friday in L17.
- ▶ Plus many informal sessions also take place throughout the week with individual teachers.
- ▶ Holiday sessions - to be arranged.



# ONLINE RESOURCES THAT CAN HELP

## ▶ KERBOODLE

- ▶ This has online text books which can be personalised by the students.
- ▶ It has answers too...
- ▶ [www.kerboodle.com](http://www.kerboodle.com)
- ▶ [Kerboodle log in](#)
- ▶ First initial and surname e.g. mdarwin
- ▶ Code: zv6

# ONLINE RESOURCES THAT CAN HELP

## continued

### ▶ MATHSWATCH

- ▶ Online video clips and worksheets in topics.
- ▶ [www.vle.mathswatch.co.uk](http://www.vle.mathswatch.co.uk)
- ▶ Username: name@mcauley
- ▶ Password: name
- ▶ eg jsmith@mcauley  
JSmith

# ONLINE RESOURCES THAT CAN HELP

## continued

### ▶ MYMATHS

- ▶ Online lessons, activities, tests and worksheets in topics.
- ▶ [www.mymaths.co.uk](http://www.mymaths.co.uk)
- ▶ [Mymaths](#)
- ▶ mcauley
- ▶ pi
- ▶ Individual logins to access specific work set

# ONLINE RESOURCES THAT CAN HELP

continued

- ▶ AQA website [www.aqa.org.uk](http://www.aqa.org.uk)

This website will give you:

- ▶ A summary of all the topics assessed
- ▶ Practice papers
- ▶ Pupils are sitting AQA GCSE 8300 exams

# Mock analysis information

- ▶ Your child will be emailed analysis file for each mock exam paper they sat.
- ▶ It gives a breakdown of each question, showing how they did and giving model answers, mark schemes and examiners notes.
- ▶ It also compares against the national average and it gives grade boundaries.
- ▶ Its an extremely useful tool. Please encourage them to use it.

# Other useful websites

- ▶ [www.pixymaths.co.uk](http://www.pixymaths.co.uk)
- ▶ [www.bbc.co.uk/schools/gcsebitesize/maths](http://www.bbc.co.uk/schools/gcsebitesize/maths)
- ▶ [www.coolmath.com](http://www.coolmath.com)
- ▶ [www.waldomaths.com](http://www.waldomaths.com)
- ▶ [www.easymaths.com](http://www.easymaths.com)
- ▶ [www.s-cool.co.uk](http://www.s-cool.co.uk)



## Why are calculators important?

Liquid A has a density of  $0.5 \text{ g/cm}^3$ .

Liquid B has a density of  $1 \text{ g/cm}^3$ .

120 g of liquid A and 270 g of liquid B are mixed to make liquid C.

Work out the density of liquid C.

$$x_{n+1} = 4 - \frac{2}{x_n^2}$$

$$4 - \frac{2}{3.75^2}$$

A pack of 8 toilet rolls costs £2.64.

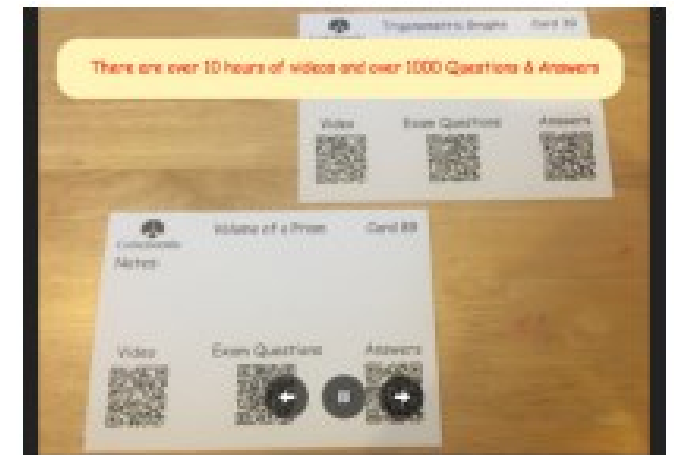
A pack of 27 toilet rolls costs £8.91.

Which pack gives the better value for money?

Show how you decide.

# Resources which can be bought through school, and from the maths table tonight

- ▶ Workbook/revision guides (foundation and higher) this includes an e-book. £4
- ▶ Calculators £5.50
- ▶ Revision cards (foundation and higher) with video links, exam questions and answers £7





# NEW MATHS APP

- ▶ There is a flier on the maths table giving further information on a maths app available at a cost 99p until the end of January.
- ▶ It is well worth the money and very quick and easy to use  
[KEY cards](#)

# How Parents Can Help

- ▶ Time put aside on a regular basis to do some extra maths in an appropriate environment
- ▶ Take an interest - ask your child to explain what they are doing
- ▶ PRAISE, ENCOURAGE, BE POSITIVE - constant reminders that *'To do well at maths you need to do maths'*
- ▶ Correct equipment to ensure the best chance of answering questions.  
**Calculator, ruler, rubber, compass, protractor, pencil**



Thank you  
for  
listening