

# GCSE Mathematics (1-9)

Information for Parents of  
KS4 Students

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# GCSE Mathematics (1-9)

*Course*

*Edexcel GCSE Mathematics (1-9) 1MA1*

*Exam Date*

*June 2020* (Linear Course) (2021 for year 10)

Old  
Grade

New  
Grade

9

8

7

6

5

4

3

2

1

*Tiers*

*Higher Tier – Grades 9 to 4*

*Foundation Tier – Grades 5 to 1*

*Decided in January of Year 11*

A\*

A

B

C

D

E

F

G

=

=

*Notes*

No early entry

No multiple exam entry



# GCSE Mathematics (1-9) 1MA1

## Exams

***Paper 1*** (1h30m) Non-Calculator - 80 Marks

***Paper 2*** (1h30m) Calculator - 80 Marks

***Paper 3*** (1h30m) Calculator - 80 Marks

## Notes

*Any topic can be assessed in any paper and may be assessed more than once*

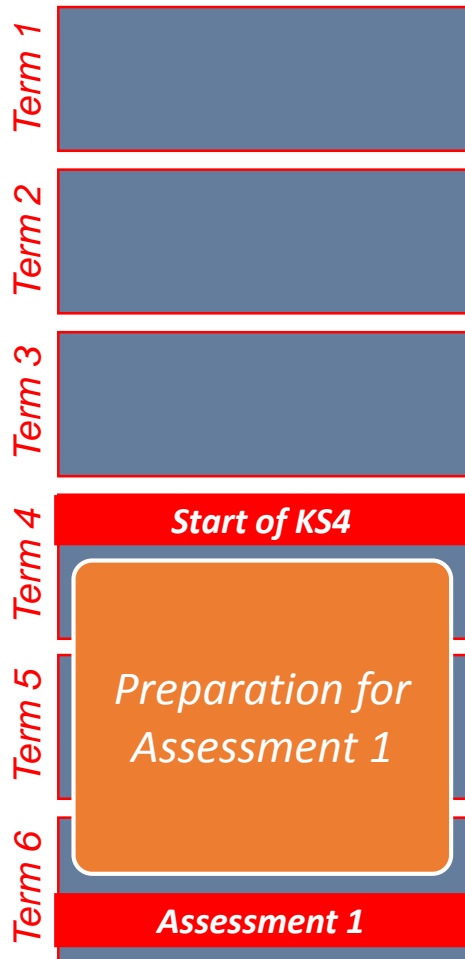
*~25% increase in content in both tiers*

*More marks for Problem Solving and Mathematical Reasoning*

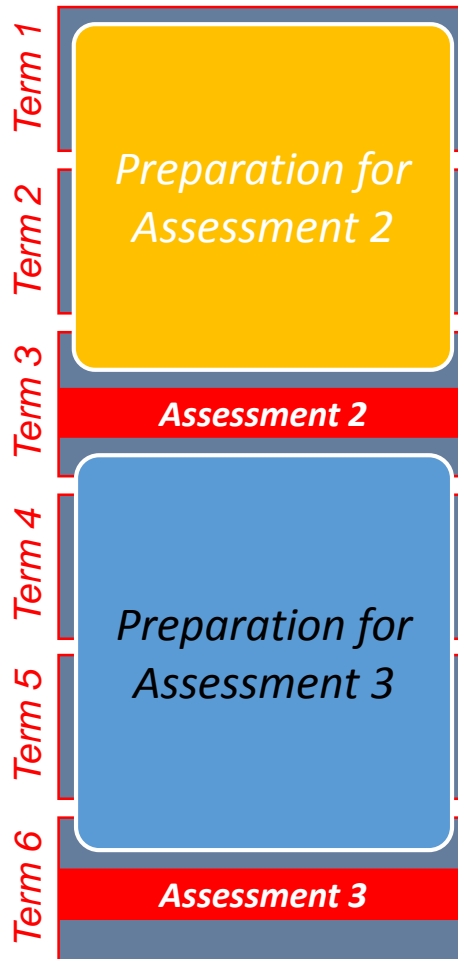


# Assessment Milestones

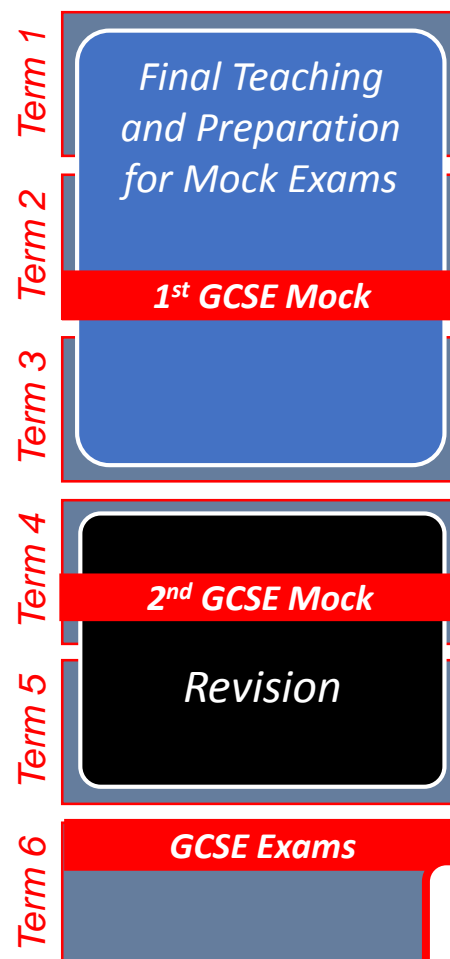
## Year 9



## Year 10



## Year 11



# Assessment Feedback

Current and Target Grade and MET score

Full breakdown of skills

Green – Secure Skills

Red – Areas to Develop  
 Hyperlinked to MyMaths lessons and practice

Grey – Not yet assessed

Emailed to students and parents after each assessment milestone

<Name>

Current MET Score: <b>64</b>	Current New GCSE: <b>5</b>
KS4 target MET Score: <b>88</b>	KS4 Target New GCSE: <b>8</b>

Norton Hill Mathematics  
8 September 2015

	Number & Ratio	Algebra & Graphs	Geometry & Measure	Probability & Statistics
5 MET skills secure above 66				
66	<u>Writing a change as a percentage</u>	<u>Simplifying expressions by applying index laws more than once or to several terms</u>	Solve problems requiring either multiple steps of <i>Pythagoras</i> or amending a diagram to locate a right-angled triangle	Use data from a <i>sample</i> to estimate properties of the population and explain how <i>bias</i> might influence these estimates
65	<u>Calculate compound interest using repeated percentage change</u>	Derive and solve <i>simultaneous equations</i> from word problems	Calculate lengths in <i>similar</i> 2D shapes	<u>Define random sample and explain a method of selecting a random sample</u>
64	Calculate with numbers in standard form using a calculator	Solving linear <i>simultaneous equations</i> by elimination	<u>Calculating the arc length or area of a sector</u>	<u>Compare distributions</u> of data by referring to averages and spread
63	Converting small numbers to and from <i>standard form</i>	Solving <i>quadratic equations</i> by factorising (unitary coefficient of $x^2$ )	Use <i>SOH CAH TOA trigonometry</i> to calculate angles in right-angled triangles	<u>Calculate the mean from a grouped frequency table</u>
62	Use inequalities to specify <i>error</i> due to truncation or rounding	<i>Plotting graphs</i> of non-linear quadratic, cubic or reciprocal functions	Use <i>SOH CAH TOA trigonometry</i> to calculate sides of right-angled triangles	State the <i>modal class</i> or the class containing the <i>median</i> from a grouped frequency table
61	<u>Dividing by decimals</u> using equivalent calculation and short division	<u>Changing the subject of a formula by using upto 4 inverse operations (including powers and roots)</u>	Know and use the sum of angles in polygons and find angles in diagrams including <i>regular polygons</i>	Use <i>set notation</i> including $\{, \cdot, \emptyset, \cap$ and $\cup$ to refer to <i>Venn diagrams</i>
60	Adjust a <i>recipe</i> or check it there are enough ingredients to make a given number	<u>Solve difficult linear equations with brackets and fractions</u>	<u>Enlarge a shape from a given centre including fractional scale factors and fully describe an enlargement</u>	Use <i>averages</i> to work out the values of missing data
59	Solving problems using a combination of percentages, fractions and ratio	Write a <i>linear function</i> for a given ratio	Use a <i>perpendicular</i> to find the shortest distance from a point to a line	Calculate the <i>mean from a frequency table</i>
58	<i>Rounding to significant figures</i>	Know the difference between an equation and an <i>identity</i> and show algebraic expressions are equivalent	<u>Know the ruler and compass constructions for perpendicular lines and bisectors</u>	Calculate the angles and draw a <i>pie chart</i> from data in a table
57	Converting large numbers to and from standard form	Selecting the correct factorisation for a quadratic expression, one bracket, two brackets or difference of two squares	Calculate the volume of a cylinder giving answers approximately or in terms of $\pi$	Understand that by increasing <i>sample size</i> outcomes will tend towards theoretical <i>probabilities</i>

25 MET skills absent (or untested) below 57

Login *dunstan* password *parallel*

**MyMaths.co.uk**  
Bringing Maths Alive

**Booster Packs**

Three Boosters Four Boosters Six Boosters  
Ds to Cs Cs 2 Bs A 2 A Star

Search

**Resources Library**  
Booster Packs  
Statistics GCSE  
A Level  
Games  
Toolkit

**My Portal** ?  
Login Password  
   
View

- Arithmetic >
- Numbers and Powers >
- Decimals >
- Fractions >
- Frac Dec Perc >
- Ratio >
- Expressions >
- Sequences, Formulae >
- Equations >
- Coordinates, Graphs >
- Angles >
- Transformations >
- Area and Perimeter >
- Volume and 3D Shapes >

Tutorials and tests on **all** areas of the GCSE syllabus

GCSE Grade Booster packs

All students have a personal login to keep track of the activities they complete



# Maths Equipment

*Every Lesson and Exam*

*Scientific Calculator  
(Casio FX recommended)*

*Black Pen*

*HB Pencil*

*Eraser*

*Ruler (cm & mm)*

*Protractor*

*Compass*



*All available cheaply  
from the*

*Maths Shop  
at main reception*

# How Can You Help?

*Ensure they have the correct equipment*

*Monitor and support homework and revision*

- ➔ *See what homework has been set on **the Portal***
- ➔ *Ensure they attend revision sessions*

*Review **MET feedback** with them after each assessment.*

- ➔ *Help them work on highlighted **Areas to Develop***
- ➔ *Use **[www.mymaths.co.uk](http://www.mymaths.co.uk)***



# Mathematics Revision

Answer real exam practice questions

March 2013 – Higher – Paper 1 (Non - Calculator)  
Odd Questions Only – (45 marks)

March 2013 – Higher – Paper 2 (Calculator)  
Odd Questions Only – (49 Marks)

Google 1MA0 Past Papers

Mark answers. Find out what you can't do!

Name: \_\_\_\_\_  
Test: Mar 13 -H- Non-Calc (even)  
Mark: 51% (B)

Grade	A*	A	B	C	D
Number of students	2	3	23	21	14

**D** You showed excellent understanding of  
 \* Using a line of best fit on a scatter graph to estimate  
 \* Plotting the graph of a straight line from an equation like  $y = 2x + 3$   
 \* Using a conversion graph (e.g. £ to \$). Find larger amounts by multiplying up.  
 \* Work out when two trains will next leave together. (Use the departure times).

**C** You showed excellent understanding of  
 \* Give geometric reasons when working out an angle (e.g. base angles in isosceles  $\Delta$  are equal)

**B** To improve you need to understand  
 \* A ratio of boys to girls 1:2 mean if there are 16 boys there are  $2 \times 16 = 32$  girls

**A** To improve you need to understand  
 \* Complete a cumulative frequency table and graph and read Quantiles from your graph  
 \* Convert to and from standard form and divide numbers in standard form  
 \* Factorise expressions like  $x^2 - 2x + 27$  or  $x^2 - 100$  into a pair of brackets  
 \* Describe a rotation by giving angle, direction and centre of rotation

Check your progress with these activities  
 1. www.mymaths.co.uk > NUMBER > Ratio and Proportion > Ratio Dividing 2  
 2. www.mymaths.co.uk > DATA > Presenting Data > Cumulative Frequency 2  
 3. www.mymaths.co.uk > NUMBER > Standard Form > Standard Form Calc  
 4. www.mymaths.co.uk > ALGEBRA > Equations-Quadratic > Quadratic Equations

Do something about it!

MyMaths.co.uk  
Booster Packs  
Three Boosters | Four Boosters | Six Boosters  
Ds to Cs | Cs 2 Bs | A 2 A Star

Resources Library  
Booster Packs  
Statistics GCSE  
A Level  
Games  
Toolkit

GCSE Mathematics Exam Board: Edexcel  
Exam Practice Workbook Higher Level

GCSE Mathematics Exam Board: Edexcel  
Revision Guide

Teacher and students working together.

Repeat

# Exam Practice Questions

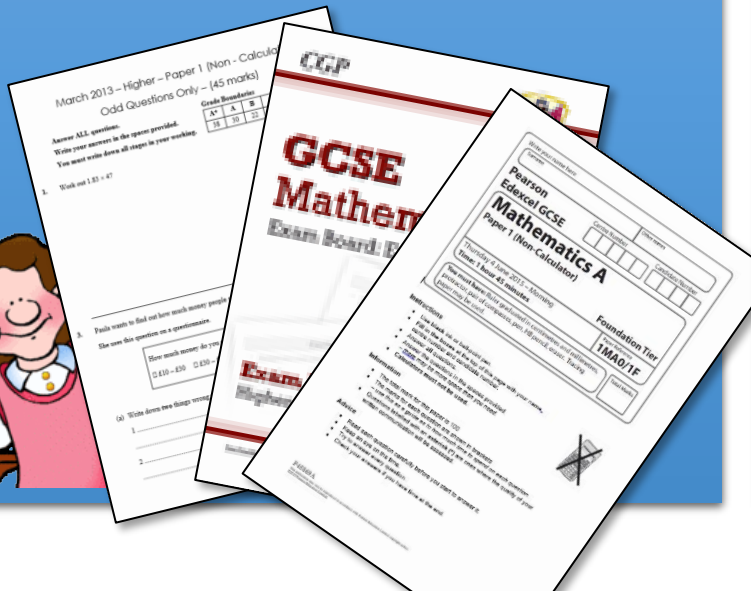
Where can I get *real* exam questions to practice on?

Lots given out already!

*Check your Maths book.*

*Exam Practice Workbook.*

*Ask your Maths teacher for more.*



Search online



1MA0 Past Papers

[www.mathsmadeeasy.co.uk](http://www.mathsmadeeasy.co.uk)

[www.revisionmaths.com](http://www.revisionmaths.com)

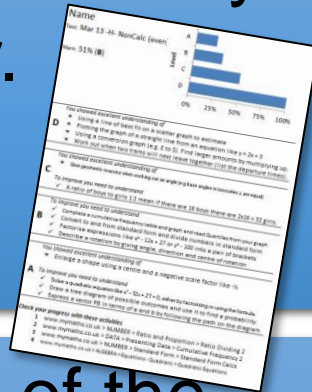
[www.mrbartonmaths.com](http://www.mrbartonmaths.com)

[qualifications.pearson.com](http://qualifications.pearson.com)

# Marking Answers

How do I check my answers?

Hand the paper in to your maths teacher.



Look up the mark scheme Online



1MA0 Mark Schemes

Watch a video of the answers.



1MA0 Walkthrough

*(Higher tier is better supported)*