AQA GCSE Mathematics (8300)

5 IS A GOOD PASS

Three assessments of 90 minutes

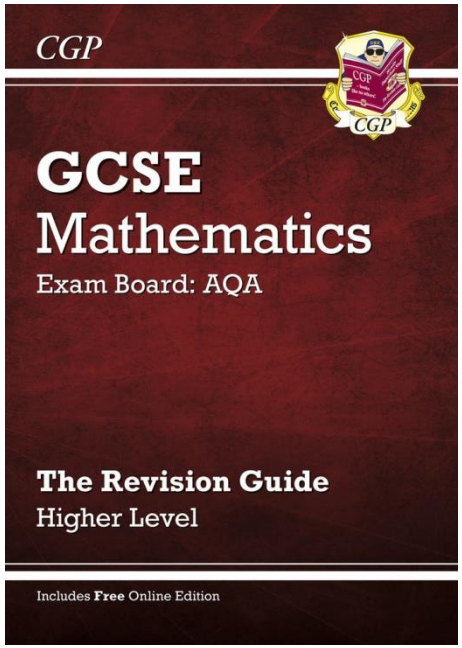
1. None Calculator – 80 marks
2. Calculator – 80 marks
3. Calculator – 80 marks

Foundation grades 1 – 5
Higher grades 4 – 9

Maths at Wigston Academy

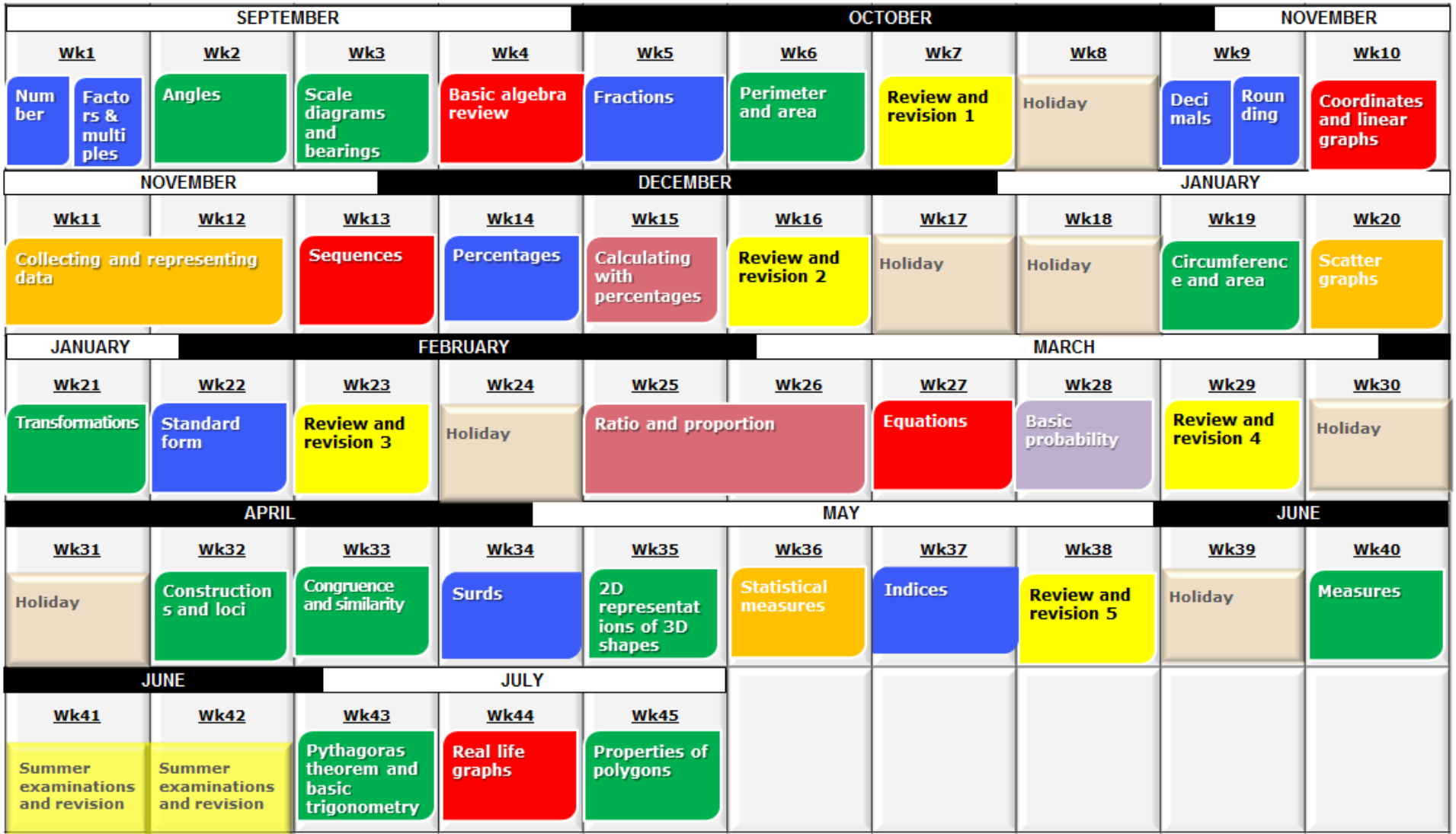
- 2 year plan (Unless continuation of teacher)
- Problem solving
- ½ termly tests
- RAG marking
- Intervention (Thursday support)
- Mastery

- Set is just a number!!



Higher

Year 10



Foundation

Year 10

SEPTEMBER				OCTOBER				NOVEMBER	
Wk1	Wk2	Wk3	Wk4	Wk5	Wk6	Wk7	Wk8	Wk9	Wk10
Basic Number	Factors and Multiples	Angles	Scale diagrams and bearings	Basic Algebra	Fractions	Review and Revision 1	Holiday	Coordinates and Linear Graphs	Percentages / Calculating with %

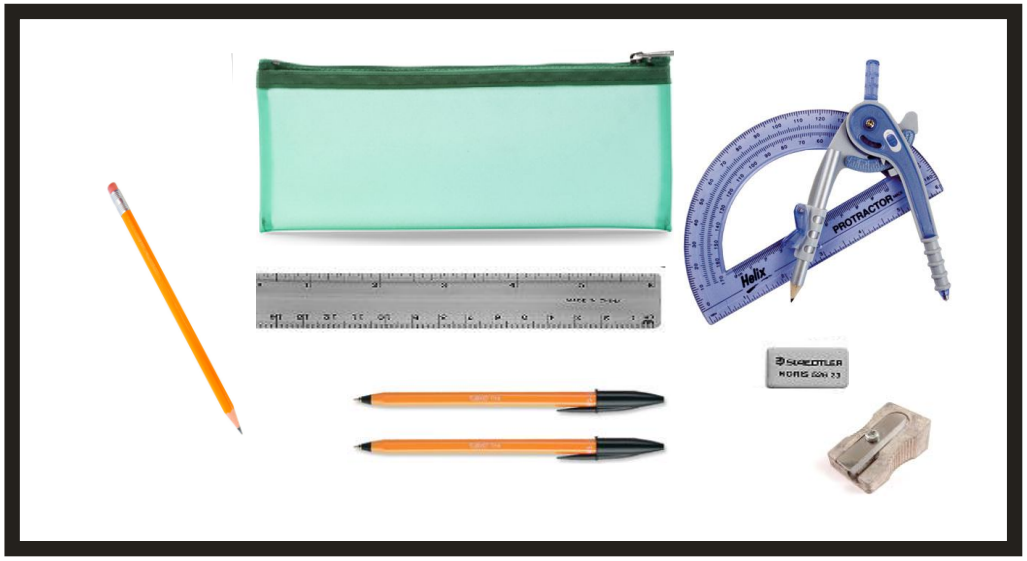
NOVEMBER				DECEMBER				JANUARY	
Wk11	Wk12	Wk13	Wk14	Wk15	Wk16	Wk17	Wk18	Wk19	Wk20
Decimals / Rounding	Collecting and Representing Data	Sequences	Perimeter and Area	Review and Revision 2	Circumference and Area	Holiday	Holiday	Basic Probability	Equations

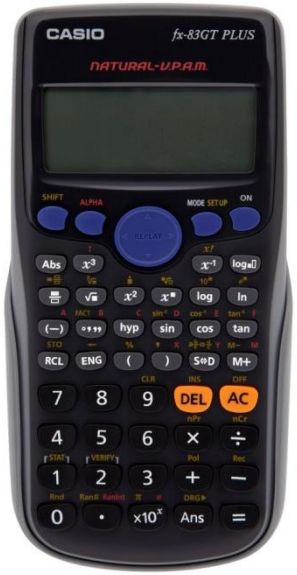
JANUARY		FEBRUARY			MARCH				
Wk21	Wk22	Wk23	Wk24	Wk25	Wk26	Wk27	Wk28	Wk29	Wk30
Ratio and Proportion		Review and Revision 3	Holiday	Scatter Graphs	Transformations	Pythagoras' Theorem	2D Representations of 3D Shapes	Review and Revision 4	Holiday

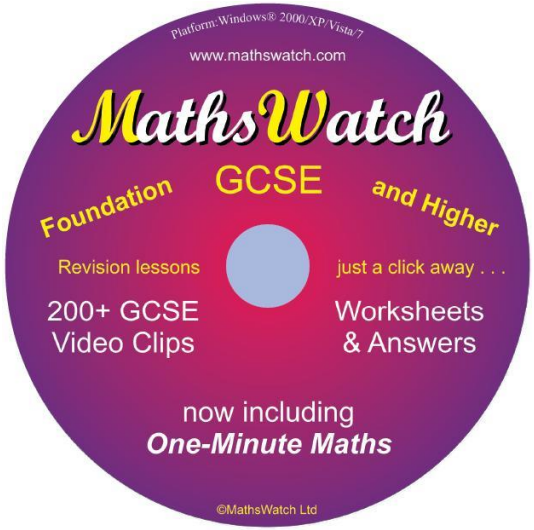
APRIL				MAY				JUNE	
Wk31	Wk32	Wk33	Wk34	Wk35	Wk36	Wk37	Wk38	Wk39	Wk40
Holiday	Standard Form	Measures	Statistical Measures	Indices	Constructions and Loci	Congruence and Similarity	Review and Revision 5	Holiday	Graphs recap and extension

JUNE		JULY		
Wk41	Wk42	Wk43	Wk44	Wk45
Summer Examinations and Revision	Summer Examinations and Revision	Introduction to Trigonometry	Real Life Graphs	Properties of Polygons

What can you do to help?







www.mymaths.co.uk
Username – Wigston1
Password – square177

www.hegartymaths.com
www.bigbrainmaths.com
www.studymaths.co.uk

PiXL Maths APP!

Maths Support & Intervention
Thursday 3 – 4pm.

hegartymaths

Add or subtract fractions (different denominators)

Previously on HegartyMaths...

Making links

Generating equivalent fractions:

1st	2nd	3rd	4th	5th	6th	7th
$\frac{2}{7}$	$\frac{4}{14}$	$\frac{6}{21}$	$\frac{8}{28}$	$\frac{10}{35}$		
$\frac{3}{5}$	$\frac{6}{10}$	$\frac{9}{15}$	$\frac{12}{20}$			

Evaluate $\frac{2}{7} + \frac{3}{5}$

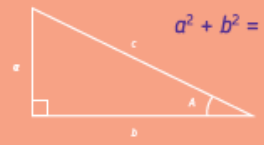
$\frac{10}{35} + \frac{21}{35} = \frac{31}{35}$ ✓✓ :)

GCSE Maths

Formulae you'll need to know

Pythagoras' theorem

In any right-angled triangle where a, b and c are the length of the sides and c is the hypotenuse:



$$a^2 + b^2 = c^2$$

Trigonometry formulae

In any right-angled triangle ABC where a, b and c are the length of the sides and c is the hypotenuse:

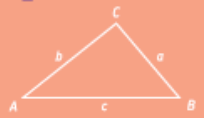
$$\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$$

In any triangle ABC where a, b and c are the length of the sides:

$$\text{sine rule: } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\text{cosine rule: } a^2 = b^2 + c^2 - 2bc \cos A$$

$$\text{Area} = \frac{1}{2} ab \sin C$$



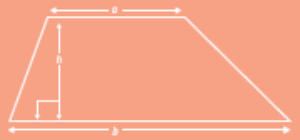
Circumference and area of a circle

Where r is the radius and d is the diameter:

$$\text{Circumference of a circle} = 2\pi r = \pi d$$

$$\text{Area of a circle} = \pi r^2$$

Perimeter, area, surface area and volume formulae



Where a and b are the lengths of the parallel sides and h is their perpendicular separation:

$$\text{Area of a trapezium} = \frac{1}{2}(a + b)\, h$$

Volume of a prism = area of cross section x length

Compound interest

Where P is the principal amount, r is the interest rate over a given period and n is the number of times that the interest is compounded:

$$\text{Total accrued} = P\left(1 + \frac{r}{100}\right)^n$$

The quadratic formula

The solutions of $ax^2 + bx + c = 0$ where $a \neq 0$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Probability

Where $P(A)$ is the probability of outcome A and $P(B)$ is the probability of outcome B:

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

$$P(A \text{ and } B) = P(A \text{ given } B)\, P(B)$$

AQA

StudyMaths.co.uk

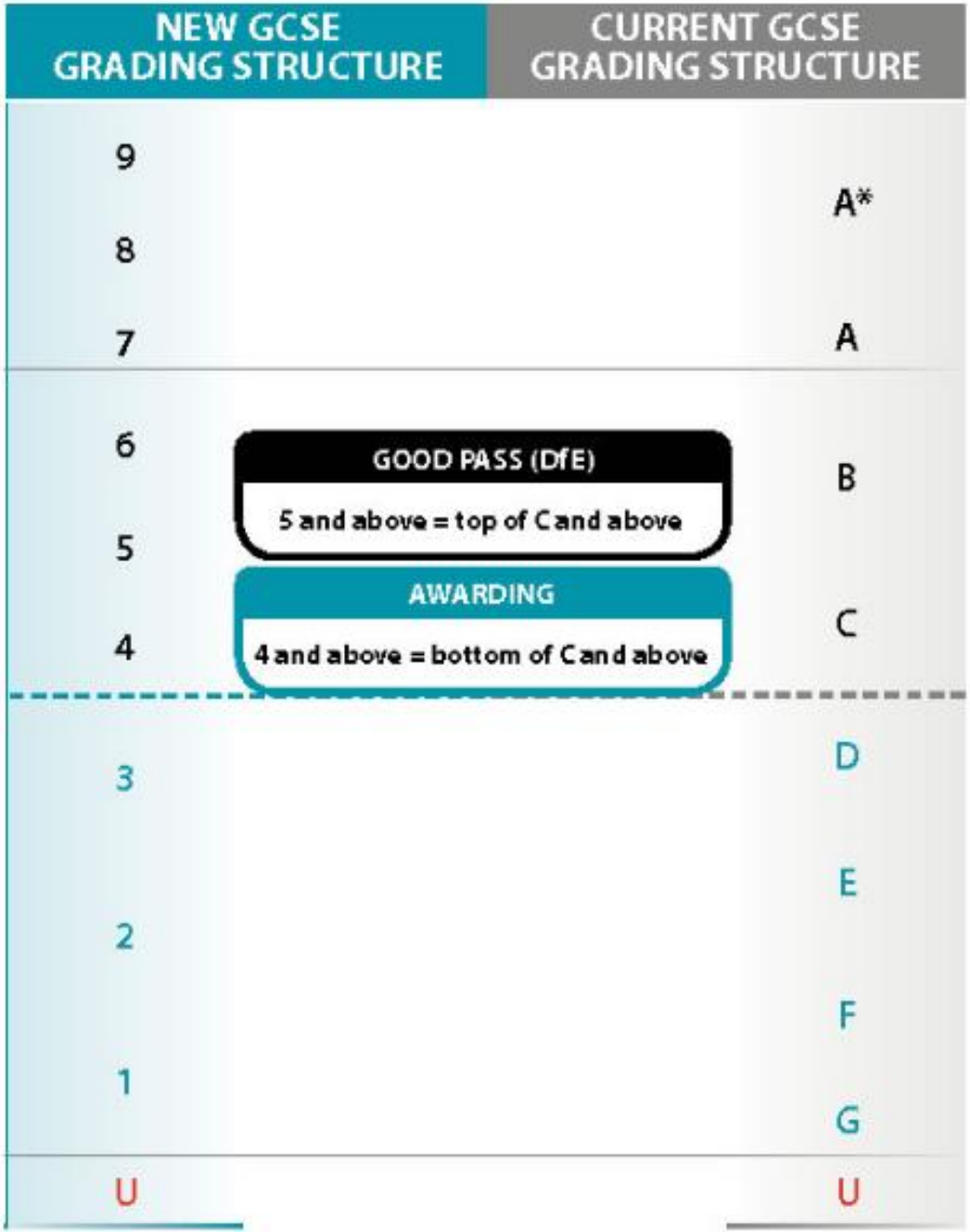
GCSE maths revision

Formulae - GCSE Maths formulae sheet

A list of all the formulae needed for your GCSE maths exam. Click a formula for an interactive example to show how it is used.

If you are entered for Foundation tier then you must know all the formulae marked 'F'. Higher tier students must learn the whole list!

Formula	Tier?	How to use the formula in words:	In Algebra:
Area of a Rectangle	F	Multiply the length by the width.	$A = L \times W$
Area of a Triangle	F	Multiply the base by the perpendicular height and divide by two.	$A = \frac{1}{2}bh$
Area of a Parallelogram	F	Multiply the base by the height.	$A = b \times h$


NEW GCSE GRADING STRUCTURE
CURRENT GCSE GRADING STRUCTURE
9
8
7
6
5
4
3
2
1
U
A*
A
B
C
D
E
F
G
U
GOOD PASS (DfE)
5 and above = top of C and above
AWARDING
4 and above = bottom of C and above