GCSE Maths

Key Information

Exam Board:	AQA/Edexcel/OCR (tbc after students complete their November Trial Exams)
Specification:	GCSE (Foundation and Higher)
Exam Dates:	Paper 1 (non-calculator) — 25th May 2017 Paper 2 (calculator) — 8th June 2017 Paper 3 (calculator) — 13th June 2017 Each exam lasts for 1 hour 30 minutes and they are evenly weighted
Essential Maths Equipment:	Pencil & pen Ruler, protractor and compass (available for £1 in school) Calculator (available for £4 in school)
Past Papers & solutions:	www.mrbartonmaths.com/gcse www.bland.in Also available from any maths teacher
Helpful Revision Websites:	www.mymaths.co.uk Login: monkseaton Password: revision
Teacher Details:	Mr Thompson: paul.thompson@monkseaton.org.uk Mr Egner: colin.egner@monkseaton.org.uk Mr Ewart: alan.ewart@monkseaton.org.uk 0191 297 9700

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Below is a list of key facts you'll need for the GCSE exam.

This list is by no means exhaustive (Higher Tier students will need to memorise other formula from key topics)

Don't forget about the formula sheet given to you on page 1 of each exam - have a look at the past paper materials to what is included.

Top 20 to learn
GCSE facts 1
1. Area of circle $A = \Pi r^2$
2. Circumference circle $C = \Pi \times D$
3. Area of triangle $A = \frac{B \times H}{2}$
4. Area Trapezium $A = \frac{(a + b) \times h}{2}$
5. Area parallelogram $A = B \times H$
6. Volume cuboid $V = L \times W \times H$
7. Volume prism V = area end x length
8. Exterior angle polygon $Ext = \frac{360°}{n}$
9.Pythagoras theorem • sq, sq • add/subtract • square root

10. Speed = $\frac{\text{distance}}{\text{time}}$
11. Mean = $\frac{\text{sum values}}{\text{number values}}$
12. Median = Middle value when data put in order
13. Mode = number that occurs the most
14. Range Range = Max - min
15. Square numbers 1,4,9,16,25,36,49,64,81,100,121,144
16. Prime numbers 2,3,5,7,11,13,17,19,23,29 **Note**: 1 is not a prime number
17. Metric lengths 1cm = 10mm, 1m = 100cm, 1m = 1000mm, 1km = 1000m
18. Metric weights 1kg = 1000g, 1 tonne = 1000kg
19. Metric capacity 1litre = 1000ml, 1 litre = 100cl, 1cl = 10ml
20. Metric Imperial conversions 8km = 5miles, 30cm = 1 foot, 2.5cm = 1 inch 1kg = 2.2 lbs 25g = 1 ounce 4.5litres =1 gallon 1 litre = 1.75 pints

In the run up to the exam period, an excellent **daily revision task** would be to read, cover and write out the above list.

Otherwise, "the only way to ***learn*** mathematics is to ***do*** mathematics"