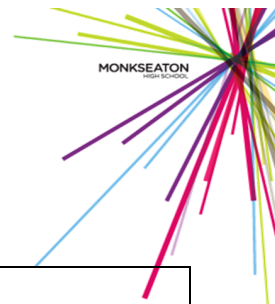


# GCSE Maths

## Key Information



<b>Exam Board:</b>	AQA/Edexcel/OCR (tbc after students complete their November Trial Exams)
<b>Specification:</b>	GCSE (Foundation and Higher)
<b>Exam Dates:</b>	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
<b>Essential Maths Equipment:</b>	Pencil & pen Ruler, protractor and compass (available for £1 in school) Calculator (available for £4 in school)
<b>Past Papers &amp; solutions:</b>	<a href="http://www.mrbartonmaths.com/gcse">www.mrbartonmaths.com/gcse</a> <a href="http://www.bland.in">www.bland.in</a> Also available from any maths teacher
<b>Helpful Revision Websites:</b>	<a href="http://www.mymaths.co.uk">www.mymaths.co.uk</a> Login: monkseaton Password: revision
<b>Teacher Details:</b>	Mr Thompson: <a href="mailto:paul.thompson@monkseaton.org.uk">paul.thompson@monkseaton.org.uk</a> Mr Egner: <a href="mailto:colin.egner@monkseaton.org.uk">colin.egner@monkseaton.org.uk</a> Mr Ewart: <a href="mailto:alan.ewart@monkseaton.org.uk">alan.ewart@monkseaton.org.uk</a> 0191 297 9700

## GCSE Maths

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.



<b>Top 20 to learn GCSE facts 1</b>	
1. Area of circle $A = \pi r^2$	10. Speed = $\frac{\text{distance}}{\text{time}}$
2. Circumference circle $C = \pi \times D$	11. Mean = $\frac{\text{sum values}}{\text{number values}}$
3. Area of triangle $A = \frac{B \times H}{2}$	12. Median = Middle value when data put in order
4. Area Trapezium $A = \frac{(a + b) \times h}{2}$	13. Mode = number that occurs the most
5. Area parallelogram $A = B \times H$	14. Range Range = Max - min
6. Volume cuboid $V = L \times W \times H$	15. Square numbers 1,4,9,16,25,36,49,64,81,100,121,144
7. Volume prism $V = \text{area end} \times \text{length}$	16. Prime numbers 2,3,5,7,11,13,17,19,23,29 Note: 1 is not a prime number
8. Exterior angle polygon Ext = $\frac{360^\circ}{n}$	17. Metric lengths 1cm = 10mm, 1m = 100cm, 1m = 1000mm, 1km = 1000m
9. Pythagoras theorem <ul style="list-style-type: none"><li>• sq, sq</li><li>• add/subtract</li><li>• square root</li></ul>	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"