

# Knowledge Organiser Maths Term 2 Year 10 F

The Numbers in **Red** are topics that have already been covered in either KS3 or KS4 and are being revisited to help the students to move onto more complicated topics.

The numbers in **blue** are the GCSE grade of the work being covered

In **Green** are the Mathsgenie reference which can be used for further revision and questions to try [www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

Section 11:- Rounding (x hours)			Keywords
- Rounding to a given number (10, 100, etc.)	2	MG1/2	Rounding – making a number easier to use Decimal place – figures that follow a decimal point Significant figure – figures that provide meaning to the number
- Rounding to decimal places	2	MG1/2	
- Rounding to significant figures	2	MG1/2	

Section 12:- Decimals (x hours)			Keywords
- Multiplying decimals	3	MG1/2	Decimal – a number which has numbers after the decimal point
- Dividing decimals	3	MG1/2	

Section 13:- Ratio (x hours)			Keywords
- Simplifying Ratio	3	MG1/2	Ratio – Comparing two quantities against each other
- Sharing into ratio's	3	MG1/2	
- Changing a ratio to a fraction	3/4		Direct Proportion – as one quantity increase the other quantity increases by the same amount
- Proportion Recipes	3		

Section 13:- Fractions (x hours)			Keywords
- Equivalent fractions	1	MG1/2	Numerator – top part of a fraction Denominator – bottom part of a fraction Improper fraction – the numerator is larger than the denominator Mixed number – a whole number with a fraction
- Converting mixed numbers and improper fractions	1	MG1/2	
- Adding and subtracting fractions	4		
- Multiplying and dividing fractions	2		
- Fractions of an amount	2	MG1/2	

Section 14:- Percentages (x hours)			Keywords
- Percentage of amount (without calculator)	2	MG3	Percentage – parts of 100 Increase – added on Decrease – taken away
- Percentage of amount (with calculator)	2	MG3	
- Percentage increase and decrease	3	MG3	

Section 15:- Co-ordinates (x hours)			Keywords
- Plotting co-ordinates	2	MG1/2	Operation – a mathematical process (e.g. adding)

- Reading co-ordinates	2	MG1/2	Power – how many times to multiply by the same number
- Finding missing coordinates from shapes	2	MG1/2	

Section 16:- Basic algebra (x hours)			Keywords
- Simplifying expressions	3	MG1/2	Expression – numbers or letters grouped together to show a value
- Collecting like terms	3	MG1/2	Substitution – replacing a variable with a number
- Substitution	3	MG3	
- Expanding brackets	3	MG4	

