

Term 1

Unit	Detailed topic	No. of lessons	CTL Topics	Max grade	Link to resources
Number	Rounding to decimal places Rounding to significant figures Estimation Using a calculator	3	Rounding	4	Rounding & Approximation Dr Austin Maths
	Converting recurring decimals to fractions	3		7	Decimals Dr Austin Maths
	Calculate fractions of amounts and in reverse	1	Ordering FDP	4	Fractions Dr Austin Maths
	Add and subtract fractions & mixed numbers	2	Express a given number as a fraction of another number	3	Fractions Dr Austin Maths
	Multiply & divide fractions & mixed numbers	2		4	

Algebraic Manipulation A	Index laws for brackets, multiplication and division including zero	2	$3xy \times 5xy$	5	Laws of Indices Corbettmaths
	Fractional and Negative fractional indices	2		5	Negative Indices Corbettmaths
	Convert and correct Standard form $a \times 10^n$ Calculating using sf Solve problems involving standard form (incl. non calculator methods)	3		4	Standard Form Dr Austin
	Collecting like terms	1		NA	Collecting Like Terms Dr Austin
	Multiply a single term over a bracket (including $3(x+1) - 8(2x-5)$)	1		3	Expanding & Factorising Dr Austin Maths
	Factorise single bracket -Take out common factors	1		4	
	Expanding double/triple brackets	2		6	Quadratic Expressions & Equations Dr Austin
	Factorising quadratics including $a > 1$ and difference of two squares	4		7	
Ratio & Proportion	Simplify ratio Write a ratio as fraction	1		4	Ratio & Proportion Dr Austin Maths
	divide a quantity in a given ratio Shared ratio when given part or difference Combining ratio (including sharing)	3		4	
	Direct & inverse proportion – unitary method	2		4	
	Best buys Recipes Currency conversion	3		3	
	Convert between standard units of mass, length, area, volume and capacity	2		3	

Primes, LCM, HCF	express integers as product of powers of prime factors	1		3	Factors, Multiples & Primes Dr Austin Maths HCF & LCM Mathsgenie
	find highest common factors (HCF) and lowest common multiples (LCM) Include worded exam questions and already in index form	2		5	
Statistical Measures	calculate the mean, median, mode and range for a discrete data set Find the interquartile range from a discrete data set	2		4	Averages Mathsgenie Averages - Frequency Tables Mathsgenie
	Mean, mode, median and range from frequency table	2		4	
	Estimate for the mean, and find modal class, median and range for grouped data.	1		5	
Linear Equations & Inequalities	Substitution USE BRACKETS e.g. $2(-3) = -6$	1		4	Substitution Dr. Austin Equations & Inequalities Dr Austin Maths
	solve linear equations, with integer or fractional coefficients, in which the unknown appears on either or both sides	4	Angles in a triangle, Area and perimeter	5	
	Forming and solving equations	2	Angles in a triangle, Area and perimeter	5	
	solve linear inequalities and represent the solution on a number line (negative flips the sign!) Including with double inequality	2		5	

Pythagoras' & Trigonometry	use Pythagoras' theorem in applied questions	2		4/5	Pythagoras Dr Austin Maths Pythagoras & Trigonometry Dr. Austin 3D Pythagoras & Trigonometry Mathsgenie
	Use SOHCAHTOA	3		5	
	Mixed Pythagoras and SOHCAHTOA problems	2		5	
	3D Trigonometry and Pythagoras	3		7	
	Angles of elevation and depression including 3D	1		7	
Linear Graphs	Plot linear graphs (Use table function)	1		3	Coordinates & Linear Graphs Dr Austin Maths
	Calculate gradient of a drawn line and when given 2 points.	1		3	
	Finding the equation of a line given 2 coordinates or gradient and a point. Midpoint and length of a line segment	2		6	
	Parallel and perpendicular lines	2		6/7	

Changing the Subject & Proportion	Change the subject, include subject needing factorising	4		5	Changing the Subject Dr. Austin
	set up problems involving direct or inverse proportion and relate algebraic solutions to graphical representation of the equations	4		7	Rearranging Harder Formula MathsGenie Direct & Inverse Proportion Direct & Inverse Proportion
Percentages	solve simple percentage problems, including percentage increase and decrease using multipliers	2	express a given number as a percentage of another number	4	Percentages Dr Austin Maths
	use reverse percentages	2		4	
	use compound interest and depreciation including multiple interest rates and reverse problems	3		7	
	Percentage change	1		5	
Graphical Representation of Data	Draw cumulative frequency diagrams	1		6	Cumulative Frequency & Histograms Dr Austin Maths
	Use cumulative frequency diagrams to find median and IQR and more/less than a value.	2		6	
	Drawing histograms	1		7	
	Interpret a histogram Complete a table and histogram Find the median etc	2		7	