

		BRONZE	SILVER	GOLD	PLATINUM
		D and below= GCSE 1,2,3	C= GCSE 4	C/B= GCSE 5,6	A/A*= GCSE 7,8,9
Year 8	Number, Ratio & Proportion	Illustrate FDP in diagrams Identify / Simplify Ratio Add, Subtract, Multiply and Divide Integers Round to nearest 10, 100, 1000 etc Round to specified number of decimal places Identify types of number (Squares, Cubes, Primes, Roots etc.) Simplify and find Equivalent Fractions Multiply/Divide by powers of 10 Know basic recurring decimals and their fraction equivalent Convert basic fractions to decimals and percentages Calculate Percentages of amounts Basic estimate of calculations	Find HCF and LCM of 2 or more numbers Express an integer greater than 2 as a product of prime factors Compare/order 2 or more fractions Apply 4 operations with fractions Apply 4 operations with decimals Understand the effect of multiplying and dividing by decimal less than 1 Convert fractions to percentages and decimals Calculate more difficult percentages of amounts Divide into a ratio Apply Unitary method Plot and read conversion graphs	Find the Reciprocal of a number Use 4 operations with mixed numbers Calculate percentage increase/decrease using multipliers Calculate Percentage change Calculate simple interest Convert currencies Round to a specified number of significant figures Estimate calculations by rounding each number to 1sf Use proportion to compare prices and find the Best buy Convert standard index form to ordinary form and vice-versa	Calculate Compound interest, compound growth and compound decay Reverse percentages (Calculate the original amount if given new amount) Calculate simple inverse proportion Add and subtract using standard index form Multiply and divide using standard index form Convert recurring decimals to fractions (using algebra)
	Algebra	Simplify algebraic expressions by collecting like terms Plot coordinates in all 4 quadrants Generate sequence given term to term rule Solve linear (basic)	Write algebraic expressions Simplifying algebraic expressions by multiplying Expand single brackets Substitute positive integers into formulae and expressions.	Expand double brackets Expand brackets and simplify expressions Factorise expressions Derive and substitute negative numbers and fractions into formulae and expressions	Factorise quadratic expressions Change subject of a formula (including powers) Use Trial and improvement to find



	Recognise special sequences (Squares, Cubes, Fibonacci, Triangular numbers etc.)	Find and use nth term of a linear sequence. Plot vertical / horizontal / y=x, y=-x lines ldentify expression/equation/formul a/identity etc.	Solve linear equations with unknown on both sides Change subject of a formula in basic cases Solve linear equations with fractional and negative solutions Apply Index Laws Plot Straight line graphs using table of values Understand y=mx+c Find gradient of parallel lines Calculate midpoint between 2 points Recognise and plot simple quadratic graphs Use nth term of a quadratic sequence Solve basic simultaneous equations by elimination	estimates of solutions of non-linear equations. Solve linear inequalities and represent inequalities on a number line Apply index laws using simple fractional / negative powers Calculate gradient of line segment Calculate the equation of a line given gradient and a point Plot inequalities in the x-y plane and use to find regions Use cover up method to plot implicit graphs Use Trigonometry to find angles in right-angled triangles. Use Trigonometry to find sides in right-angled triangles. Find nth term of a quadratic sequence Recognise and plot more difficult quad graphs Estimate solutions from quadratic graphs Plot cubic and reciprocal graphs
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Lymm High School- KS3 Life after levels - Maths Y8

Probabili Statisti	-	Know that the probabilities of mutually exclusive events add up to 1. Use lists and sample space diagrams to find all outcomes and calculate probabilities. Design, complete and use two way tables Plot and read scatter graphs	Calculate 3 averages and range from a frequency table Choose appropriate average Calculate Relative frequency from experimental data Calculate Expected frequencies Draw / Read Pie charts Draw/Read Frequency polygons Identify type and strength of Correlation Draw and apply lines of best fit Read and draw box plots	Solve harder simultaneous equations by elimination Set up and solve simultaneous equations Solve simultaneous equations graphically Find Lower Quartile/Upper Quartile/Interquartile Range from discrete data Apply AND/OR rules in probability Draw and use tree diagrams to calculate probability of 2 or more consecutive events Plot and read cumulative frequency graphs Draw a cumulative frequency graph Find Median, Lower Quartile, Upper Quartile and Interquartile Range from a Cumulative Frequency graph Estimate mean and class that median lies in from a grouped frequency table. Find modal class from a grouped frequency table
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Lymm High School- KS3 Life after levels - Maths Y8

Geometry &	Know and apply Angle	Convert metric units	Calculate Angles in parallel lines	Calculate Perimeter and
Measures	properties (Angles on a line, at	Convert metric to imperial	Find Exterior and Interior	area of circles in terms of
	a point, Angles in a triangle,	units	angles in polygons	pi
	Angles in a quadrilateral etc))	Calculate perimeter and area	Understand and use bearings	Perimeter & Area of
	Identify types and properties	of Rectangles, Triangles and	Convert units of capacity / area	compound shapes made
	of triangles, quadrilaterals and	Parallelograms	/ volume	up of parts of circles
	other shapes.	Calculate area of compound	Calculate the area of a	Use similar shapes to find
	Identify Faces, Edges, Vertices	shapes	Trapezium	missing lengths
	of 3D shapes	Calculate Surface Area of	Calculate the Perimeter and	Calculate density /
	Draw and identify nets of 3D	cubes and cuboids	area of Circles	acceleration / pressure
	shapes	Isometric drawings	Calculate Surface Area of	Describe and perform
	Identify reflective symmetry	Plans and elevations	Triangular Prisms	multiple transformations
	Identify rotational symmetry	Calculate Volume of Cubes	Calculate the Volume of Prisms	Draw and describe
	Draw Basic reflections	and Cuboids	inc. Cylinders	enlargements with
	Draw Positive Enlargement	Plot and read distance time	Calculate Volume of Composite	negative scale factors
	with positive scale factor	graphs	Prisms	Describe regions with
	without a centre of	Draw and describe	Calculate Speed/Distance/Time	combination of loci
	enlargement	Reflections in horizontal/	Draw and describe an	Calculate Surface Area of
	Use a ruler, protractor and	vertical lines and lines y=x,	Enlargement of a shape with a	Cylinder
	compass correctly	y=-x in the x-y plane	Positive sf about a point	Construct Special Angles
	Know the different types of	Draw and describe Rotation	Construct a Perpendicular	(30°, 45°,60°)
	angles.	in x-y plane	Bisector including from a point	
		Draw and describe	Construct an Angle bisector	
		Translations	Construct Loci	
		Construct SAS, ASA, SSS	Apply Pythagoras' Theorem to	
		triangles.	find hypotenuse	
			Apply Pythagoras' Theorem to	
			find a shorter side	