

Key Stage 4 Maths Curriculum Overview

- The KS4 Maths Curriculum is taught through the 'Pearson Edexcel GCSE (9-1) Mathematics' [*Pearson publications*]. The programme incorporates textbook activities, digital resources, and practical problem-solving activities to meet the requirements to prepare pupils for pathways to Entry Level, Functional Skills and GCSE Qualifications.
- The Entry level programme may begin in yr9 for pupils who are ready to begin their qualification journey. It will also be delivered to KS4 pupils who have not had the opportunity to complete a full KS3 programme (due to joining the school after a prolonged period of absence from previous schooling).
- The Maths Curriculum is structured to provide the skills needed for the Entry Levels and Functionals skills qualifications which are taught alongside the GCSE programme to provide a progressive pathway to the most suitable qualification for each individual student.

	Entry Level 1						
Year/Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
EL1	Read write order and	Recognise coins and	Know the number s of	Read numerical	Read and draw simple	Practice and final	
	compare numbers up	notes and write them	days in a week, months	information from	charts and diagrams	exams	
	to 20	in numbers with the	and seasons in a year	lists	including a tally chart,		
		correct symbols (£	and be able to name		block diagram/graph		
	Use whole numbers to	&p), where these	them in sequence	Sort and classify			
	count up to 20 items,	involve numbers up to		objects using a			
	including zero	20	Describe and make comparisons in words	single criteria			
	Add numbers which	Read 12-hours digital	between measures of				
	total up to 20 and	and analogue clocks	items including size,				
	subtract numbers from		length, width, height,				
	numbers up to 20		weight and capacity				
	Recognise and		Use everyday positional				
	interpret the symbols		vocabulary to describe				
	+, - and = appropriately		position and direction				
			including left, right, in				
			front, behind, under				
			and above.				

	Entry Level 2						
Year/Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
EL2	Count reliably up to	Know the number of	Calculate money with	Read and compare	Extract information	Practice and final	
	100 items	hours in a day and	pence up to one3	positive temperatures	from lists, tables,	exams	
		weeks in a year; be	pound and in whole		diagrams and bar		
	Read write order and	able to name and	pounds of multiple	Read and compare	charts		
	compare numbers up	sequence	items and write with	simple scales to the			
	to 200		correct symbols (£ or	nearest labelled	Make numerical		
		Divide two-digit	p)	division	comparisons from bar		
	Recognise and	whole numbers by			charts		
	sequence odd and	single-digit whole	Read and record time	Describe properties of			
	even numbers up to	numbers and express	in common date	common 2D and 3D	Sort and classify		
	100	remainders	formats and read time	shapes including	objects using two		
	- · · ·		displayed on analogue	number of sides,	criteria		
	Recognise and	Approximate by	clocks in hours, half	corners, edges, races,			
	interpret the + - X ÷	rounding to the	hours and quarter	angles and base	Take information		
	and = appropriately	nearest 10, and use this rounded answer	hours, and		from one format and		
			understand hours	Use appropriate	represent the		
	Add and subtract two	to check results	from a 24 hour clock	positional vocabulary to describe position	information in another format,		
	digit numbers	Recognise simple	Use metric measures	and direction,	,		
	Multiply whole	fractions (halves,	of length, including	including between,	including use of bar charts.		
	numbers in the range	quarters and tenths)	mm, cm, m and km	inside, outside,			
	0x0 to 12x12	of whole numbers		middle, below, on			
	0.0 10 12.12	and shapes	Use metric measures	top, forwards and			
			of weight including g	backwards.			
		Read, write and use	and kg				
		decimals to one					
		decimal place	Use metric units of				
			capacity including ml				
			and I				

Entry Level 3							
Year/Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
EL3	Count, read write, order and compare numbers up to 1000	Divide three-digit whole numbers by single and double-	Multiply two-digit whole numbers by single and double-	Recognise and continue linear sequences of	Read, write and use decimals up to two decimal places	Practice and final exams	
	Add and subtract using three-digit whole numbers	digit whole numbers	digit whole numbers Approximate by rounding numbers less than 1000 to the nearest 10 or 100	numbers up to 100	Recognise and continue sequences that involve decimals		

	Foundation Maths							
Year/Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
GCSE	Unit 1: (16 hours)	Unit 2: (5 hours)	Unit 4: (13 hours)	Unit 5: (5 hours)	Unit 8: (10 hours)	Unit 9: (6 hours)		
yr1	Number	Algebra.	Fractions and	Equations,	Perimeter, area and	Graphs		
			percentages.	inequalities and	volume 1.			
	Unit 2: (6 hours)	Unit 3: (18 hours)		sequences.				
	Algebra	Graphs, tables and	Unit 5:(9 hours)		Unit 9: (8 hours)	Unit 10: (11 hours)		
		charts.	Equations,	Unit 6: (11 hours)	Graphs	Transformations		
			inequalities and	Angles,				
			sequences.					
				Unit 7: (7 hours)				
				Averages and range				
GCSE	Unit 11: (9 hours)	Unit 13: (12 hours)	Unit 15: (6 hours)	Unit 18: (10 Hours)	Unit 19: (4 Hours)	Practice Exams &		
yr2	Ratio and Proportion	Probability	Constructions, loci	More fractions,	Congruence,	Final Exams		
			and bearings.Unit	indices and standard	similarity and			
	Unit 12: (5 hours)	Unit 14: (7 hours)	16: (11 hours)	form.	vectors.			
	Right-angled	Multiplication and	Quadratic equations					
	triangles:	reasoning	and graphs.	Unit 19: (10 Hours)	Unit 20: (5 Hours)			

Bridge Farm Barn, Woodhill Road, Sandon, Chelmsford, Essex, CM2 7SG admin@clarity.essex.sch.uk_Tel: 01245 408606

Constructions, loci	. ,	Congruence, similarity and vectors.	More algebra Practice Exams	
---------------------	-----	---	--------------------------------	--

	Functional skills Level 2							
Year/Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
level 2	using numbers and	using numbers and	measures, shape and	measures, shape and	handling information	Practice and final		
	the number system	the number system	space	space	and data	exams		
	Read, write, order and	Order, add, subtract	Calculate amounts of	Calculate actual	Calculate the median			
	compare positive and	and compare	money, compound	dimensions from scale	and mode of a set of			
	negative numbers of	amounts or quantities	interest, percentage	drawings and create a	quantities			
	any size	using proper and	increases, decreases	scale diagram given				
		improper fractions	and discounts	actual measurements	Estimate the mean of			
	Carry out calculations	and mixed numbers	including tax and		a grouped frequency			
	with numbers up to		simple budgeting	Use coordinates in 2-	distribution from			
	one million including	Express one number		D, positive and	discrete data			
	strategies to check	as a fraction of	Convert between	negative, to specify				
	answers including	another	metric and imperial	the positions of points	Use the mean,			
	estimation and		units of length, weight		median, mode and			
	approximation	Order, approximate	and capacity using a)	Understand and use	range to compare two			
		and compare	a conversion factor	common 2-D	sets of data			
	Evaluate expressions	decimals	and b) a conversion	representations of 3-				
	and make		graph	D objects	Work out the			
	substitutions in given	Add, subtract,			probability of			
	formulae in words	multiply and divide	Calculate using	Draw 3-D shapes to	combined events			
	and symbols	decimals up to three	compound measures	include plans and	including the use of			
		decimal places	including speed,	elevations	diagrams and tables,			
	Identify and know the		density and rates of		including two-way			
	equivalence between	Understand and	pay	Calculate values of	tables			
		calculate using ratios,		angles and/or				

fractions, decimals	direct proportion and	Calculate perimeters	coordinates with 2-D	Express probabilities
and percentages	inverse proportion	and areas of 2-D	and 3-D shapes	as fractions, decimals
		shapes including		and percentages
Work out percentages	Follow the order of	triangles and circles		
of amounts and	precedence of	and composite shapes		
express one amount	operators, including	including non-		Draw and interpret
as a percentage of	indices	rectangular shapes		scatter diagrams and
another		(formulae given		recognise positive and
		except for triangles		negative correlation
Calculate percentage		and circles)		
change (any size				
increase and		Use formulae to find		
decrease), and		volumes and surface		
original value after		areas of 3-D shapes		
percentage change		including cylinders		
		(formulae to be given		
		for 3-D shapes other		
		than cylinders)		