Maths Curriculum Over	view 2024 - Kev	/ stage 4/5
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Course options	Units taught	Examinations
GCSE 9 -1 Foundation	Factors, multiples and primes	Students are entered for their final examination papers at different levels, according to prior individual progress and attainment
GCSE 9-1 Higher	Decimals	Higher level will award grades 3-9 (with 9 being the highest)
	Algebra: the basics	Foundation level will award grades 1-5
	Expressions and substitution into formulae	
	Sequences	
	Mean mode median range	
	Tables, charts and graphs	Paper 1 (Non calculator exam)
	Real-life graphs	This exam is mainly applicable to those areas of maths which don't require a calculator as much depending on the tier classific
	Pie charts	(higher or foundation). Students undertaking Foundation will be using their maths mastery skills in topics such as algebra, sha
	Scatter graphs	number and data representation. Higher classification students will be required to know additional topics such as surds, vecto
	Fractions, decimals and percentages	and circle theorems.Paper 2 and 3 (calculator exams)
	Fractions and reciprocals	
	Statistics, sampling	Paper 2 and 3 (calculator exams)
	Indices, powers and roots	These exams will require the student to be skilful in areas of maths which could require the use of a calculator. Such topics cou
	Similarity and congruence in 2D	percentage growth and decay, volume of compound shapes, area of a circles and trigonometry. Higher students will be expect
	Plans and elevations	know additional topics such as the sine & cosine rule and the tangent function
	Perimeter, area and volume	
	Ratio	
	Proportion	
	Probability	
	Straight-line graphs	
	Properties of shapes, parallel lines and angle facts	
	Interior and exterior angles of polygons	
	Percentages	Higher papers
	Equations and inequalities	Students which are undertaking the higher GCSE course need to have the same skills as the foundation course students but als
	Quadratic equations: expanding and factorising	have mastery of more. Students will be expected to have a more in depth understanding of topics such as shape, algebra, grap
	Quadratic equations: graphs	and trigonometry.
	Indices and standard form	
	Circles, cylinders, cones and spheres	
	Right-angled triangles: Pythagoras and trigonometry	
	Multiplicative reasoning	
	Transformations	
Edexcel Entry Level	Topic 1 – Number: Count	The Pearson Edexcel Entry Level Certificate in Mathematics consists of one externally-set test and one externally-set task for E
Certificate in	Topic 2 – Number: Read, write and order	1 and 2 and two externally-set tests and one externally-set task for Entry 3.
Mathematics	Topic 3 – Number: Fractions and decimals	Students must complete all their assessment at the same Entry Level.
Entry Level 1	Topic 4 – Number: Pattern	
Entry Level 2	Topic 5 – Number: Facts	
Topic 6 – Number: Operations		
	Topic 7 – Number: Equipment	
	Topic 8 – Algebra	
	Topic 9 – Ratio and proportion	
	Topic 10 – Geometry: 2D shapes	
	Topic 11 – Geometry: 3D shapes	
	Topic 12 – Geometry: Perimeter and area	
	Topic 13 – Geometry: Position, movement and pattern	

	Topic 14 – Geometry: Angles		
	Topic 15 – Measures: Unit		
	Topic 16 – Measures: Measuring instruments		
	Topic 17 – Statistics		
Functional Skills	Topic 1 - Number: Numbers to one million	The Pearson Edexcel Functional Skills Qualification in Mathematics at Level 1 consists of one externally assessed	
Mathematics Level 1	Topic 2 - Number: Negative numbers	assessment.	
	Topic 3 - Number: Multiply by 10, 100, 1000	Each assessment comprises two sections – a non-calculator section (calculator prohibited) and a calculator section	
	Topic 4 - Number: Division facts	(calculator permitted).	
	Topic 5 - Number: Simple formula	(careatter permitted).	
	Topic 6 - Number: Square numbers		
	Topic 7 - Number: Order of precedence		
	Topic 8 - Number: Fractions and mixed numbers		
	Topic 9 - Number: Fractions of amounts		
	Topic 10 - Number: Decimal numbers		
	Topic 11 - Number: Four operations with decimals		
	Topic 12 - Number: Rounding		
	Topic 13 - Number: Percentages		
	Topic 14 - Number: Percentage of amounts		
	Topic 15 - Number: Estimation		
	Topic 16 - Number: Equivalence		
	Topic 17 - Number: Ratio		
	Topic 18 - Measure: Interest		
	Topic 19 - Measure: Discounts		
	Topic 20 - Measure: Convert measurements		
	Topic 21 - Measure: Scales on maps		
	Topic 22 - Measure: Area and perimeter		
	Topic 23 - Measure: Volume		
	Topic 24 - Measure: 2D shapes		
	Topic 25 - Measure: Plans		
	Topic 26 - Measure: Angles		
	Topic 27 - Data: Charts and tables		
	Topic 28 - Data: Grouped data		
	Topic 29 - Data: Mean and range		
	Topic 30 - Data: Probability		
	Topic 31 - Data:Outcomes		