Principles of a	The KS4 curriculum builds on the KS3 mastery model. The aim of the mastery approach is that, over time, all students develop secure and
mastery curriculum	connected factual knowledge, procedural fluency and conceptual understanding.
in mathematics	
	The KS4 SOW has been adapted from the Edexcel SOW to suit our school. The students are taught the SOW over 2 years and use the Edexcel
	GCSE textbooks. These focus on developing key skills along with reasoning and problem-solving techniques.
	Students are able to solve problems because they have developed knowledge regarding the, 'that', 'how' and 'why' related to that topic.
	Factual knowledge – knowledge 'that'
	<ul> <li>Procedural fluency – knowledge 'how'</li> </ul>
	<ul> <li>Conceptual understanding – knowledge 'why'</li> </ul>
	Essential Lesson Components are:
	Thinking Mathematically – helping the students to decide what to do when they are not sure about how to start
	• Key Concepts – key concept/objective identified and required prior knowledge, interleaving and misconceptions built into lesson
	Motivating Students' Learning – the why we are learning this and how does it relate to other concepts
	• Supporting Reasoning – use of activities and discussion to sharpen students' reasoning and the links between other topics (interleaving)
	<ul> <li>Intelligent Practice – time spent on a sequence of lessons to ensure factual knowledge, procedural fluency and conceptual understanding are achieved by the end of the topic</li> </ul>
	• Concrete-Pictorial-Abstract – multiple representations of concepts should be used to both support and extend understanding
	• Mathematical Language - precise language and vocabulary is introduced, used and reinforced throughout so students are able to express themselves clearly and accurately.
	• Differentiation – teach to the top with the same outcome for all but consider how to scaffold to support those who need it.
	<ul> <li>Assessment – Quick starts, class tests and Examinations based on GCSE graded questions.</li> </ul>

	Y10 Autumn 1							
Content/Skills	Unit 1 – Calculations 1							
	Pupils are taught to							
Procedural	Order positive and negative integers and decimals							
Knowledge –	<ul> <li>Round to a number of decimal places or significant figures.</li> </ul>							
'Know What'	<ul> <li>Use mental and written methods to add, subtract, multiply and divide with positive and negative integers and decimals.</li> </ul>							
	Use BIDMAS to complete calculations in the correct order							
	Unit 5 – Fractions, Decimals and Percentages							
	Pupils are taught to							
	Find fractions and percentages of amounts.							
	Add, subtract, multiply and divide with fractions and mixed numbers.							
	Convert between fractions, decimals (including recurring decimals), and percentages.							
	Order fractions, decimals and percentages.							
	Unit 3 – Angles and Polygons							
	Pupils are taught to							
	Use angle facts including at a point, on a line, at an intersection and for parallel lines.							
	Use bearings to specify directions.							
	Identify types of triangles and quadrilaterals and use their properties.							
	Identify congruent snapes and use congruence to prove geometric results.							
	Identity similar snapes and use similarity to find lengths and areas.     Coloulate the properties of polygons including interior and outerior engles for regular polygons							
	Calculate the properties of polygons including interior and exterior angles for regular polygons.							
	Punils are taught to							
	• Substitute values into formulae and rearrange formulae to change their subject							
	<ul> <li>Write an equation to represent a functions and find inputs and outputs. Find the inverse of a function and construct and use</li> </ul>							
	composite functions.							
	Use the terms expression equation formula identity inequality term and factor							
	Construct proofs of simple statements using algebra.							
	<ul> <li>Expand brackets to get a guadratic expression and factorise guadratics into brackets.</li> </ul>							

	Y10 Autumn 2								
Content/Skills	Unit 7 – Working in 2D								
	Pupils are taught to								
Procedural	Measure line segments and angles accurately.								
Knowledge –	Use scale drawings and bearings.								
'Know What'	<ul> <li>Calculate the area of triangles, parallelograms, trapezia and composite shapes.</li> </ul>								
	• Describe and transform shapes using reflections, rotations, translations (described as 2D vectors), and enlargements								
	(including fractional and negative scale factors).								
	<ul> <li>Identify what changes and what is invariant under a combination of transformations.</li> </ul>								
	Unit 9 – Measures and Accuracy								
	Pupils are taught to								
	Use approximate values to estimate calculations.								
	<ul> <li>Use an estimate to check an answer obtained using a calculator.</li> </ul>								
	<ul> <li>Solve problems involving speed and density.</li> </ul>								
	<ul> <li>Look at a value that has been rounded and work out upper and lower bounds for the original value.</li> </ul>								

	Y10 Spring 1						
<b>Content/Skills</b> Procedural Knowledge –	Unit 13 – Factors, Powers and Roots         Pupils are taught to         • Know and use the language of factors, multiples, and primes.         • Write a number as a product of its prime factors.						
'Know What'	<ul> <li>Find the HCF and LCM of a pair of integers.</li> <li>Estimate the square or cube root of an integer.</li> <li>Find square and cube roots of numbers and apply the laws of indices.</li> <li>Simplify expressions involving surds including rationalising fractions.</li> <li>Unit 10a – Linear &amp; Quadratic Equations</li> <li>Pupils are taught to <ul> <li>Solve linear equations with unknowns on both sides</li> <li>Derive and solve linear equations by factorising</li> <li>Solve quadratic equations by completing the square and using the quadratic formula</li> <li>Derive and solve quadratic equations</li> </ul> </li> </ul>						

	Y10 Spring 2						
Content/Skills	Unit 14a – Linear & Quadratic Functions						
	Pupils are taught to						
Procedural	<ul> <li>Plot straight line graphs – vertical, horizontal and diagonal</li> </ul>						
Knowledge –	<ul> <li>Decide whether a given point lies on a graph</li> </ul>						
'Know What'	Draw a quadratic graph						
	<ul> <li>Identify and interpret roots, intercepts and turning points of a quadratic graph</li> </ul>						
	<ul> <li>Complete the square to be able to sketch a quadratic curve</li> </ul>						
	Unit 8 – Probability						
	Pupils are taught to						
	<ul> <li>Use experimental data to estimate probabilities of future events.</li> </ul>						
	<ul> <li>Calculate theoretical probabilities using the idea of equally likely events.</li> </ul>						
	<ul> <li>Compare theoretical probabilities with experimental probabilities.</li> </ul>						
	Recognise mutually exclusive events and exhaustive events and know that the probabilities of mutually exclusive exhaustive						
	events sum to 1.						
	Unit 10b & 14b - Simultaneous Equations, Iteration & Inequalities, and Solving Graphically						
	Pupils are taught to						
	<ul> <li>Derive and solve two linear simultaneous equations in two variables (by elimination)</li> </ul>						
	<ul> <li>Solve simultaneous equations graphically (find approximate solutions)</li> </ul>						
	<ul> <li>Use iterative processes to find approximate solutions to equations</li> </ul>						
	<ul> <li>Solve linear inequalities in one variable and represent the solution on a number line</li> </ul>						

Y10 Summer 1           Content/Skills         Unit 11 - Circles and Construction Pupils are taught to           Procedural         • Find the area and circumference of a circle and composite shapes involving circles.           Knowledge -         • Calculate arc lengths, angles, and areas of sectors.           'Know What'         • Prove and apply circle theorems.           • Use standard ruler and compass constructions and solve problems involving loci.           Unit 14c - Equation of a Straight Line, and Kinematics           Pupils are taught to           • Understand and identify gradient and intercept (y = mx + c), interpret the gradient as rate of change and use graphs to real life problems           • Use one point and gradient to find equation of a line           • Use two points to find the gradient, and the equation of a line           • Find the midpoint of a line segment           • Plot and interpret kinematic graphs (ST or DT)           • Calculate the gradient of kinematic graphs to find speed/acceleration           • Find the area under speed-time graphs to find speed/acceleration           • Find the area under speed-time graphs to find the distance travelled           Unit 12 - Proportion, Ratio and Percentage Change           Pupils are taught to           • Express proportions of amounts as fractions and percentages.           • Divide a quantity in a given ratio.
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• Use scale factors to convert between lengths on maps and scale diagrams and the distances they represent.
Calculate percentage increases and decreases using multiplication.
Find the original value of a quantity that has undergone a percentage increase or decrease.
Y10 Summer 2
Content/Skills Unit 17 – Calculations with Roots and Indices
Pupils are laught to
Perform calculations involving roots and indices, including negative and fractional indices.     Derform exact calculations involving fractions, surds and =
Knowledge – • Perform exact calculations involving fractions, surds and $\pi$ .
• Work with numbers in standard form.

	Y11 Autumn 1						
Content/Skills	Unit 19 – Pythagoras and Trigonometry						
	Pupils are taught to						
Procedural	<ul> <li>Use the formulae for Pythagoras' theorem to find a missing side in a right-angled triangle.</li> </ul>						
Knowledge –	<ul> <li>Use the trigonometric ratios to find missing angles and lengths in triangles.</li> </ul>						
Know what	• Find the exact values of $\sin\theta$ , $\cos\theta$ and $\tan\theta$ for key angles.						
	<ul> <li>Use the sine and cosine rules to find missing lengths and angles.</li> </ul>						
	Express vectors in terms of simple base vectors.						
	Unit 22 – Units and Proportionality						
	Pupils are taught to						
	Convert between standard and compound units.						
	Use compound measures.						
	Compare lengths, areas, and volumes of similar shapes.						
	Solve direct and inverse proportion problems.						
	Describe direct and inverse proportion relationships using equations.						
	• Recognise graphs showing direct and inverse proportion and interpret the gradient of a straight-line graph.						
	• Find the instantaneous and average rate of change from a graph.						
	Solve repeated proportional change problems.						

	Y11 Autumn 2
Content/Skills Procedural Knowledge – 'Know What'	Y11 Autumn 2         Unit 18b – Graphs 2         Pupils are taught to <ul> <li>Recognise and draw graphs of cubic and reciprocal functions.</li> <li>Recognise and draw graphs of exponential functions.</li> <li>Recognise and sketch the graphs of trigonometric functions.</li> <li>Recognise and sketch translations and reflections of graphs.</li> <li>Draw and interpret graphs of non-standard functions and use them in real-life problems.</li> <li>Approximate the gradient of a curve at a given point and the area under a graph. Interpret these values in real-life problems including kinematic graphs.</li> <li>Recognise and use simple equations of circles and find the tangent to a circle at a point.</li> </ul> <li>Unit 16 – Groups and Bivariate Data         <ul> <li>Pupils are taught to</li> <li>Use frequency tables to represent grouped data.</li> <li>Construct histograms with equal or unequal class widths.</li> <li>Calculate summary statistics from a grouped frequency table.</li> <li>Plot scatter graphs and recognise correlation.</li> <li>Draw lines of best fit and use them to make predictions.</li> </ul> </li>

	V11 Spring 1							
Content/Skills	TII Spring I							
contenty skins	Pupils are taught to	2						
Procedural	Construct and in	nternret nlans and eleva	ations of 3D shapes					
Knowledge –	Calculate the vo	nume of cuboids and ris	attens of 50 shapes.					
'Know What'	Calculate the ve	dume and surface area	of sphoros pyramids co	nos and composito soli	de			
	Calculate the ve     Know and apply	the relationship between	on spheres, pyrannus, co	lumos of similar shapos	JS.			
	• Know and apply	r the relationship betwe	en lengths, areas and vo	numes of similar shapes.				
			Y11 Sr	oring 2				
Content/Skills	Unit 20 - Combined Events							
	Pupils are taught to							
Procedural	<ul> <li>Use Venn diagrams to represent sets.</li> </ul>							
Knowledge – 'Know What'	Use a possibility space to represent the outcomes of two experiments and to calculate probabilities.							
	<ul> <li>Use a tree diagram to show the outcomes of two experiments.</li> </ul>							
	Calculate conditional probabilities.							
	Unit 21 - Sequences							
	Pupils are taught to							
	<ul> <li>Find terms of a linear sequence using a term-to-term or position-to-term rule.</li> </ul>							
	<ul> <li>Recognise special types of sequence and find terms using either a term-to-term or position-to-term rule.</li> </ul>							
	<ul> <li>Find terms of a quadratic sequence using a term-to-term or position-to-term rule</li> </ul>							
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
			- 09 -	- o -				

Assessment			Year 10 Exam 1			Year 10 Exam 2			
		Year 11 Exam 1	Year 11 Exam 2						
Literacy/Numeracy/	Throughout our mathematics curriculum students are expected to show the character trait of resilience when problem solving. When problem solving								
SMSC/Character	teachers will know when to give hints and when to encourage that extra bit of struggle to get to an answer. When this is done well the students achieve								
	an amazing sense of accomplishment and they develop their problem-solving resilience which is not only needed in their maths exams but also in the								
	wider world of work, later on.								
	We have an expectation that our students will communicate their mathematics well, both orally and in written form. It isn't enough to be "good at								
	working stuff out" in the modern world, solutions to problems must be well communicated.								
	We also expect that students will display the character trait of empathy in lessons. Students often find contributing to maths lessons daunting if they are								
	not sure of their answer	or method and other stud	lents need to respect all co	ontributions, even if they a	re incorrect. Often progre	ess is made by			
	understanding another p	erson's incorrect answer.							