Chapter	Time	Topic Break-Down	Learning Objectives			
			(Students will be able to)			
21: Variation	8	21.1 Direct proportion	Solve problems where two variables have a directly proportional relationship			
			Work out the constant of proportionality			
		21.1 Inverse proportion	Solve problems where two variables have a inversely proportional relationship			
			Work out the constant of proportionality			
	_					
22: Triangles			Use trigonometric ratios and Pythagoras' theorem to solve more complex two-			
	12	22.1 Further 2D problems	dimensional problems			
			Use trigonometric ratios and Pythagoras' theorem to solve more complex three-			
		22.2 Further 3D problems	dimensional problems			
		22.3 Trigonometric ratios of angles between 0 and 30	50 Find the sine, cosine and tangent of any angle from 0 to 360			
		22.4 Solving any triangle	Use the sine rule and the cosine rule to find sides and angles in any triangle			
		22.5 Use sine to calculate the area of any triangle	Work out the area of a triangle if you know the two sides and the included angle			
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Week Commencing 17th October 2022 - Revision & Assessment						

Half Term

26: Proof - Booklet	6	26.1	Introduction to proof	Understand that proof is about logic, deciding whether statemtents are true/false
			1	
		26.2	Equations and Identities	Know the difference between equations and identities, prove simple identities
		26.2		Channel and the table of the second fit and a fit a
		26.3	Starting to generalise	Show something is true using specific cases, introducing algebra as an approach
		26.4	Multiple proofs	Show that expressions are a multiple of a given number using factorisation
		20.4		
		26.5	Types of number	Expressing differen types of number as algebraic expressions (even, odd, consecutive
		26.6	More complex proofs	Converting worded statements to algebra and proving them always true
		26.7	Consecutive number proofs (Extension only)	Complete generic proofs involving conecutive number tricks
			1	
		26.8	Geometric proofs (Extension only)	Challenging proofs involving geometric representations instead of algebra
			1	
		22.4		
23: Graphs	12	23.1	Distance-time graphs	Interpret distance-time graphs
				Draw a graph of a the depth of liquid as a container is filled
		23.2	Velocity-time graphs	Read information from a velocity-time graph
		23.2		Work out the distance travelled from a velocity-time graph
				Work out the acceleration from a velocity-time graph
		23.3	Estimating the area under a curve	Use areas of rectangles, triangles and trapeziums to estimate the area under a curve
				Interpret the gradient at a point on a curve
			1	
		23.5	Equation of a circle	Find the equation of a tangent to a circle
		22.6	Outras analys	Description and all the later states that and such as the sector
		23.6	Other graphs	Recognise and plot cubic, expotential and reciprocal graphs
		23.7	Transformation of the graph $y = f(x)$	Transform a graph
		23.7	11 alisioli filatioli ol tile glapit y = 1(x)	

Week Commencing 5th December 2022 - Year 11 Mocks

Week Commencing 12th December 2022 - Year 11 Mocks

End Of Autumn Term

24: Algebraic fractions and							
functions	12	24.1	Algebraic fractions	Simplify algebraic fractions			
	-			Solve equations containing algebraic fractions			
		24.2	Changing the subject of a formula	Change the subject of formula where the subject occurs more than once			
			1				
		24.3	Functions	Find the output of a function			
				Find the inverse function			
		24.4		The data second states from the second			
		24.4	Composite functions	Find the composite of two functions			
		24.5	Iteration	Find an approximate solution for an equation using the process of iteration			
		24.J		interation an equation using the process of iteration			
25: Vector geometry	8	25.1	Properties of vectors	Add and subtract vectors			
	<u> </u>	_					
		25.2	Vectors in geometry	Use vectors to solve			
			Week Commencing 6th February 2023 - Revision	on & Assessment			
			Half Term				
			Week Commencing 27th March 2023 - Revisio	n & Assessment			
End Of Spring Term							
Week Commoncing 15th May Voor 11 Dublic Exams							
Week Commencing 15th May - Year 11 Public Exams							