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Autumn Half-Term				Positive	
Term: Year 9 Autumn Term – Block Eight Topic: Coordinates and Linear Graphs			Parallel Horizontal		
What is the essential knowledge from this unit? What do students need to remember and understand?				Negative	
whatc	to students need to remember and understand?		Vertical	Intercept	
	Specification content	Specification notes	Straight Line	Coordinate	
	opecinication content	Specification notes	Axis	y-intercept	
A8	Work with co-ordinates in all four quadrants		Equation	Gradient	
Christian the school and he combined to a			Graph	Rearrange	
	ents should be able to: blot points in all four quadrants		Intercept	Direct	
• i	ind and use coordinates of points identified		Linear	proportion	
	by geometrical information, for example the fourth vertex of a		Equation	Real-life	
• r	rectangle given the other three vertices		Graph	Curve	
	ind coordinates of a midpoint, for example on the diagonal of a rhombus		Straight line	Asymptote	
• i	• identify and use cells in 2D contexts, relating coordinates to applications such as Battleships			Interpret	
	and Connect 4			Perpendicular	
G11	Solve geometrical problems on co-ordinate axes		Function	Product	
	33 3 goomanical problems on co-ordinate axes		Gradient	Reciprocal	
	Students should be able to:			Negative	
• 9	show step-by-step deduction in solving a geometrical problem.		Steep	Reciprocal	
 Plot graphs of equations that correspond to straight-line graphs in the coordinate plane; <u>Use the form</u> y = mx + c to identify parallel lines and perpendicular lines; <u>Find the equation of the line through two given points, or through one point with a given gradient.</u> Students should be able to: recognise that equations of the form y = mx + correspond to straight-line graphs in the coordinate plane draw graphs of functions in which y is given explicitly or implicitly in terms of x complete tables of values for straight-line graphs calculate the gradient of a given straight-line given two points or from an equation manipulate the equations of straight lines so that it is possible to tell whether lines are parallel or not work out the equation of a line, given two points on the line or given one point and the gradient. 			Mathematical questioning should be designed to unpick the structure of the maths and deepen the student's understanding. When students talk about mathematical concepts, they should develop the vital mathematical language that helps them explain their ideas fully. Students are expected and encouraged to use terminology during all discussions, verbal feedback and in written content.		
A10	Identify and interpret gradients and intercepts of linear falgebraically	functions graphically and	-		
• •	ents should be able to: recognise that equations of the form y = mx + c correspond coordinate plane with gradient m and y-intercept at (0, C), work out the gradient and the intersection with the axes.				
	rior learning supports understanding of this content?	How does this content link to fut			
 Draw a coordinate grid. Work with negative numbers. Generate linear sequences. Work out the value of the nth term of a linear sequence for the nth t				sequence for any	
Ple	Plot coordinates in all four quadrants. given value of n.				
 Substitute numerical values into expressions. Solve linear equations. Generate sequences with a given term-to-term rule. Generate a sequence where the nth term is given. Work out the value of the nth term of any sequence for an given value of n. Generate simple sequences derived from diagrams and 				given. uence for any grams and	
		complete a table of results			
Readin	ng: Where in the unit are students supported to read	by the diagrams. Writing: Independent writing tas.	ks and how they a	re structured	
1		Llain at the analysis at at this at an	:6: - 4		

Key Vocabulary and notation.

Using the correct subject specific terminology for numbers and

Self-evaluation, reviewing, reflecting and analysis of own work

class books, personalised learning checklists and analysis.

Creating notes that can be used later for revision purposes -

Responding to questions that ask for an explanation or a

symbols - examination papers, class books.

reason – examination papers, class books.

class books, revision cards, mind maps etc.

KEVICC Key Stage 4 Curriculum Subject: Mathematics

complex academic text?

problems' – teacher input.

tasks – teacher input.

Reading and understanding mathematical questions and

Decoding complex examination questions - explain what

they are asking the student to do' – teacher input. Following instructions to solve problems - break down the

Recognising terminology, numbers, and symbols.

Key assessments:

How will do students review the information learned?

End of block assessments.

AQA end of block assessments provide a quick progress check at the end of each block of learning to make sure students have understood the content being covered. These are available for both foundation and higher tiers.

End of term/year assessments and mock examinations.

End of term assessments assessing the students' progress towards targets and provide diagnostic information to modify future teaching. End of year 9 and 10 examinations assessing the students' progress towards targets and provide diagnostic information to modify future teaching.

Two mock examinations seasons take place during year 11 using previous years AQA 8300 examination papers. Students to experience the full suite of papers at both Foundation and higher tiers using Non-calculator and Calculator requirements.

All examinations will explore the three examination papers at both foundation and higher tiers using non-calculator and calculator requirements

How will feedback be seen?

Marked end of block, term assessments and mock examinations.

Personalised learning checklists for all assessments identifying strengths and areas of development.

Written teacher feedback and marking in compliance with faculty and College Marking Policies. Student responses to marking. Students self-mark using purple pen. Verbal feedback given every lesson from teacher and peers as appropriate. Teacher and student self-assessment of presentation of class books will be completed to ensure written work is of high standard and students are achieving their potential.