KEVICC Key Stage 4 Curriculum Subject: Mathematics				Key Vocabulary and notation.						
Autumn Half-Term				<b>.</b>						
Term: Year 10 Autumn Term – Block Five Topic: Indices				Constructions	Bearings					
What is the essential knowledge from this unit?				Loci	Degree					
what do students need to remember and understand?				Construct	Scale					
	Specification content		Specification notes	Pair of	drawing					
				compasses	Length					
G2	Use the standard ruler and comp	<u>ass constructions:</u> eament	angle of 60°	Protractor	Given point					
	constructing a perpendicular to a		Ruler	Given line						
	<u>point</u> bisecting a given gnale			Accurate	Given side					
	Know that the perpendicular distance from a point to a line is			Straight edge	Angle					
	the shortest distance to the line		Measure	bisector						
	Use these to construct given ligures and solve loct problems			Bisectors	Parallel lines					
Students should be able to:				Bisect	Radius					
<ul> <li>measure and draw lines to the nearest mm</li> <li>measure and draw angles to the nearest degree</li> </ul>				Mid-point	Diameter					
<ul> <li>make accurate drawings of triangles and other 2D shapes using a ruler and a protractor</li> </ul>				Perpendicular	Arc					
<ul> <li>make an accurate scale drawing from a sketch, diagram, or description</li> <li>use a straight edge and a pair of compasses to do standard constructions</li> </ul>				Line segment						
construct a triangle				Straight	Semi-circle					
<ul> <li>construct an equilateral triangle with a given side or given side length</li> <li>construct a perpendicular bisector of a given line</li> </ul>				Right angle	Intersecting					
construct a perpendicular at a given point on a given line				Angle	Ine					
<ul> <li>construct a perpendicular from a given point to a given line</li> <li>construct an angle bisector</li> </ul>				Line	Equilateral					
construct an angle of 60°					Region					
<ul> <li>draw parallel lines</li> <li>draw circles or part circles given the radius or diameter</li> </ul>					Eivod					
construct diagrams of 2D shapes     find loci, both by regening and by using ICI to produce shapes and paths				Trianalo	distanco					
<ul> <li>tind loci, both by reasoning and by using ICI to produce shapes and paths</li> <li>construct a region, for example, bounded by a circle and an intersecting line</li> </ul>				Point	Labol					
<ul> <li>construct loci, for example, given a fixed distance from a point and a fixed distance from a given line</li> <li>construct loci, for example, given equal distances from two points</li> <li>construct loci, for example, given equal distances from two-line segments</li> <li>construct a region that is defined as, for example, less than a given distance or greater than a given distance from a point or line segment</li> </ul>				Skotch	Crossing					
				Eived point	Equidistant					
					Constraint					
				Intersecting	Constraint					
describe regions satisfying several conditions.				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 idea	as fully.
									Students are exp	ected and
				encouraged to u	ise terminology					
				feedback and in	written					
				content.						
What pr	ior learning supports understanding asure and classify angles	y of this content? Ho	Use the basic conductor of the basic conductor	e learning? iteria for trianales (?	SSS. SAS. ASA					
Rec	Recognise types of triangle, quadrilateral and other RHS).									
Apply angle facts, triangle congruence, similarity and     Apply the properties of:     Apply the properties of:					y and erive results					
0	<ul> <li>angles at a point</li> <li>about angles and sides inclu</li> </ul>			ding Pythagoras' Th	neorem and					
0	<ul> <li>angles at a point on a straight line</li> <li>vertically opposite angles</li> <li>and use known results to obta</li> </ul>			of an isosceles triangle are equal, ain simple proofs.						
<ul> <li>Understand and use alternate and corresponding angles</li> <li>Apply and use the concepts</li> </ul>				of congruence an	d similarity,					
• Ca	Calculate missing angles in triangles and quadrilaterals.									
Reading: Where in the unit are students supported to read Writing: Independent writing tasks and how they are structured Writing the approach while the part of the second structure to the second str										
<ul> <li>Rec</li> </ul>	Reading and understanding mathematical questions and     Symbols – examination paper				nombers and					
pro	problems' – teacher input. Decoding complex examination questions - explain what reason – examination pape			ask for an expland	ation or a					
they are asking the student to do' – teacher input.			lecting and analys	is of own work						
<ul> <li>Following instructions to solve problems - break down the tasks - teacher input.</li> </ul>				arning checklists a	nd analysis.					

## 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.

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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 selfassessment of presentation of class books will be completed to ensure written work is of high standard and students are achieving their potential.