Subject	Year	Month	>	
Mathematics	11	October	Balcarras	
Topic:				
Constructions, loci and bearings 6 lessons				
Content (Intent)			0 10000110	
Prior Learning	Future	earning		
Year 9 Constructions and loci October Year 10 Angles on parallel lines March				
Objectives	I			
 Understand congruence, as two shapes that are the same 	e size and sho	upe; visually identi	fy congruent shapes	
 Use straight edge and a pair of compasses to do standard constructions: understand, from the experience of constructing them, that triangles satisfying SSS, SAS, ASA and RHS are unique, but SSA triangles are not; construct the perpendicular bisector of a given line; construct the perpendicular from a point to a line; construct the bisector of a given angle; construct angles of 90°, 45°; 				
 Draw and construct diagrams from given instructions, including the following: a region bounded by a circle and an intersecting line; a given distance from a point and a given distance from a line; equal distances from two points or two line segments; regions may be defined by 'nearer to' or 'greater than'; 				
 Find and describe regions satisfying a combination of loc Use constructions to solve loci problems (2D only); Use and interpret maps and scale drawings; Estimate lengths using a scale diagram; Make an accurate scale drawing from a diagram; Use three-figure bearings to specify direction; Mark on a diagram the position of point <i>B</i> given its beari Give a bearing between the points on a map or scaled pla Given the bearing of a point <i>A</i> from point <i>B</i>, work out th Use accurate drawing to solve locus and bearings problem 	ng from point n; e bearing of 1			
Pedagogical notes (implementation)	How will	How will understanding be assessed & recorded (Impact)		
 Drawings should be done in pencil. Relate loci problems to real-life scenarios, includin mobile phone masts and coverage. Construction lines should not be erased. 	End of Yea	End of half term no End of Year Year 11 mocks in November How can parents help at home? MathsWatch clips		
		Qualification KS3: G26abc, G27, G31 Qualification KS4: 12b, 124, 145abc, 146, 147, 166		
Further reading/discussion	I			
Reading / Enrichment	Literacy	Links ^{Ar}	areers Links chitect, Designer ilor/Fisherman	