Subject	Y	'ear	Month	1	
Mathematics		10	March		
Topic:					
Interior and exterior angles of polygons 3 lessons					
Content (Intent)					
Prior Learning Year 10 Properties of shapes and angles on parallel lines March		Future Learning Year 11 Bearings October			
Objectives					
Recognise and name pentagons, hexagons, heptagons, octagons and decagons;					
 Understand 'regular' and 'irregular' as applied to polygons; 					
Use the sum of angles of irregular polygons;					
 Calculate and use the sums of the interior angles of polygons; 					
 Calculate and use the angles of regular polygons; 					
 Use the sum of the interior angles of an n-sided polygon; 					
 Use the sum of the exterior angles of any polygon is 360°; 					
 Use the sum of the interior angle and the exterior angle is 180°; 					
 Identify shapes which are congruent (by eye); 					
Explain why some polygons fit together and others do not					
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)			
Study Escher drawings.IUse examples of tiling patterns with simple shapes to helpstudents investigate if shapes 'fit together'.			End of half term no		
			End of Year Year 10 exams in April		
			How can parents help at home?		
		MathsWatch clips			
		Qualification KS3: G11, G17, G19, G23, G31			
			Qualification KS4: 10, 12ab, 45, 121, 123		
Further reading/discussion					
Reading / Enrichment http://passyworldofmathematics.com/jobs-with- geometry/	Liter	асу	Numeracy Links	Careers Links Engineer Architect Carpenter	