Subject	Year	Month	N	
Mathematics	10	January	Balcarras From strength to strength	
Topic:				
Angles, including polygons and parallel5 lessons				
lines				
Content (Intent)				
Prior Learning	Future	Future Learning		
Year 8 Feb Parallel lines and polygons	Year 10 N	Year 10 May Bearings		
Year 7 Jan Angle rules and 2D shapes				
Objectives				
• Know understand and use angle facts associated with triangles, including a proof of, and use the fact that,				
the exterior angle of a triangle is equal to the sum of the interior angles at the other two vertices;				
• Know, understand and use the angle properties of quadrilaterals including the fact that the angle sum of a				
quadrilateral is 360°;				
• Understand and use the angle properties of parallel lines and find missing angles using the properties of				
corresponding and alternate angles, giving reasons;				
• Calculate and use the sums of the interior angles of regular and irregular polygons, including the sum of				
the interior angles of an n-sided polygon; use these to solve problems				
• Find the size of each interior angle, or each exterior angle, or the number of sides of a regular polygon,				
and use the sum of angles of irregular polygons;				
 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°; 				
 Understand how and why shapes tessellate by calculating interior angles 				
Pedagogical notes (implementation)	How will	How will understanding be assessed &		
	recorded	recorded (Impact)		
Students must be encouraged to use geometri	ical End of half term Feb			
language appropriately, 'quote' the appropriate reasons End of Year Year 10 exams in April			April	
for angle calculations and show step-by-step deduction		How can parents help at home?		
when solving multi-step problems. MathsWatch clips (Qualification KS4)			ion KS4)	
Emphasise that diagrams in examinations are seld	om	n		
drawn accurately.				
Students must use co-interior, not supplementary, to				
describe paired angles inside parallel lines. (1)	NB			
Supplementary angles are any angles that add to 180, i	101			
Further reading/discussion				
Reading / Enrichment	Literacy	Numeracy	Careers Links	
http://passyworldofmathematics.com/iobs-	Litting	Links		
with-geometry/				