


Subject	Year	Month		
Mathematics	11	January		
Topic:				
Similarity and congruence in 2D				3 lessons
Content (Intent)				
Prior Learning Year 9 Similarity and congruence February		Future Learning		
Objectives <ul style="list-style-type: none"> • Use the basic congruence criteria for triangles (SSS, SAS, ASA and RHS); • Solve angle problems involving congruence; • Identify shapes which are similar; including all circles or all regular polygons with equal number of sides; • Understand similarity of triangles and of other plane shapes, use this to make geometric inferences, and solve angle problems using similarity; • Identify the scale factor of an enlargement of a shape as the ratio of the lengths of two corresponding sides; • Understand the effect of enlargement on perimeter; • Solve problems to find missing lengths in similar shapes; • Know that scale diagrams, including bearings and maps are 'similar' to the real-life examples. 				
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)		
Use simple scale factors that are easily calculated mentally to introduce similar shapes. Reinforce the fact that the sizes of angles are maintained when a shape is enlarged. Make links between similarity and trigonometric ratios.		End of half term no End of Year 2nd mocks in Feb & March		
		How can parents help at home?		
		MathsWatch clips Qualification KS3: R10, G31 Qualification KS4: 12b, 144, 148, 166		
Further reading/discussion				
Reading / Enrichment http://passyworldofmathematics.com/similar-triangles-applications/		Literacy	Numeracy Links	Careers Links Groundsperson Architect Medical Imaging