



Subject	Year	Term																		
Mathematics (Higher)	11	2																		
Topic																				
Multiplicative, Geometric and Algebraic reasoning, Transformations and Constructions																				
Content (Intent)																				
Prior Learning (Topic): Ratio and Proportion, Angle rules, Trigonometry and Sequences																				
• Multiplicative reasoning • Geometric reasoning • Algebraic reasoning • Transformations and constructions																				
Future Learning (Topic) Problem solving																				
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)																			
• Construct complex direct proportion equations • Construct inverse proportion equations	<u>Ongoing Assessment</u> • Q&A in plenary • Mini-whiteboards • Self and Peer assessment • One online homework per week • End of unit tests																			
• Circle Theorems - Angles between radius and chord • Circle Theorems - Angles between radius and tangent • Circle Theorems - Two tangents from a point • Circle Theorems - Alternate segment theorem	<u>Formal Assessment</u> Formative assessment in January																			
• Inequalities in two variables • Formal algebraic proof																				
• Identify invariant points and lines • Understand and use trigonometrical graphs • Sketch and identify translations and reflections of a given function																				
• Use the product rule																				
How can parents help at home?																				
Help to learn ‘need-to-know’ formulas Encourage use of SparxMaths [or MathsGenie] Review previously taught topics regularly																				
Helpful further reading/discussion (including Reading and Vocabulary Lists)																				
Reading Direct to the following websites; Sparkmaths.com www.mathsgenie.co.uk	Vocabulary Lists <table><tr><td>Proportion</td><td>Interior</td></tr><tr><td>Ratio</td><td>Exterior</td></tr><tr><td>Pressure</td><td>Simplify</td></tr><tr><td>Density</td><td>Nth term</td></tr><tr><td>Parallel</td><td>Reflection</td></tr><tr><td>Co-interior</td><td>Rotation</td></tr><tr><td>Corresponding</td><td>Translation</td></tr><tr><td>Alternate</td><td>Enlargement</td></tr><tr><td></td><td>Construct</td></tr></table>		Proportion	Interior	Ratio	Exterior	Pressure	Simplify	Density	Nth term	Parallel	Reflection	Co-interior	Rotation	Corresponding	Translation	Alternate	Enlargement		Construct
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