



Subject	Year	Term																		
Maths	8	3																		
Topic																				
Developing Geometry and Reasoning with Data																				
Content (Intent)																				
Prior Learning (Topic)	Decimal calculations, statistics, transformations, equations, indices and sequences																			
- Angles in parallel lines and polygons - Area of trapezia and circles - Line symmetry and reflection - The data handling cycle - Measures of location																				
Future Learning (Topic)	Probability, Number and Shape																			
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)																			
- Investigating angles within parallel lines (including complex problems – H) - Properties of quadrilaterals leading into angles within quadrilaterals and polygons - Constructions – angle and line bisectors - Calculations of area and perimeter within various 2D shapes - Investigate the area of a circle - Reflections of shapes within horizontal, vertical and diagonal lines	<u>Ongoing Assessment</u> - Q&A in plenary - Mini-whiteboards - Self and Peer assessment - One online homework per week - End of unit tests																			
	<u>Formal Assessment</u> May – Assessment point 2																			
- Investigate and explore the data handling cycle - Represent data in graphs and charts - Find and interpret range and compare distributions of data - Understand mean, median and mode and choose the most appropriate average - Find mean from ungrouped and grouped data (H)																				
How can parents help at home?																				
Encourage use of Sparxmaths Practise times tables on a regular basis. Review previously taught topics regularly																				
Helpful further reading/discussion (including Reading and Vocabulary Lists)																				
Reading Direct to the following websites; Sparxmaths.com www.mathsgenie.co.uk	Vocabulary Lists <table><tr><td>Parallel</td><td>Hypothesis</td></tr><tr><td>Transversal</td><td>Qualitative</td></tr><tr><td>Corresponding</td><td>Quantitative</td></tr><tr><td>Alternate</td><td>Average</td></tr><tr><td>Bisector</td><td>Range</td></tr><tr><td>Compound</td><td>Distribution</td></tr><tr><td>Diameter/radius</td><td>Outlier</td></tr><tr><td>Area/perimeter</td><td></td></tr><tr><td>Symmetrical</td><td></td></tr></table>		Parallel	Hypothesis	Transversal	Qualitative	Corresponding	Quantitative	Alternate	Average	Bisector	Range	Compound	Distribution	Diameter/radius	Outlier	Area/perimeter		Symmetrical	
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