Home-School Learning Collaboration – Mathematics



Topics in this cycle:	Taught: Spring 2	Year Group: 9
Key knowledge/concepts to be learnt ('Tell me about')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning
Deduction • Angles in parallel lines • Angle problems • Angle problems with algebra • Conjecture with angles • Conjecture with shapes		https://vimeo.com/509894521 https://vimeo.com/509895143 https://vimeo.com/509895684 https://vimeo.com/515220729
 Rotation & translation Rotational symmetry vs line symmetry Rotate a shape about a point Translate points and shapes by a vector Compare rotation and reflection of shapes Find the result of a series of transformations 		https://vimeo.com/516750060 https://vimeo.com/516750304 https://vimeo.com/518618837 https://vimeo.com/518622283
 Pythagoras Determine whether a triangle is right-angled Calculate the hypotenuse of a right angled triangle Missing sides Coordinate distance Pythagoras' theorem in 3D 		<u>https://vimeo.com/521971114</u> <u>https://vimeo.com/521971544</u>

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Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?
Alternate angles	Are on different sides of transversal line, forming a 'z shape'	
Corresponding angles	Are on the same side of transversal line forming an 'f shape'	
Co-interior angles Are between parallel lines, forming a 'c shape'		
Transversal line	A line that crosses a set of parallel lines	
Parallel lines	Never meet	
Perpendicular lines	Meet under 90 degree angle	Family Learning Opportunities
Bisect	Split into two identical halves	Look at Pythagoras' Theorem in 3D: https://vimeo.com/524893478 Discover more about series of transformations: https://vimeo.com/518615680
Polygon	Enclosed 2D shape with straight lines	