

Learning Activities	Communication	Supporting Sites
<p>Topic: Solve complex problems with parallel line and quadrilateral</p> <p>What do you want students to know?</p> <p>Explain why the angle sum of a quadrilateral is 360°; use the angle properties of quadrilaterals and the fact that the angle sum of a quadrilateral is 360°;</p> <p>Understand and use the angle properties of parallel lines and find missing angles using the properties of corresponding and alternate angles, giving reasons;</p> <p>Use the angle sums of irregular polygons;</p> <p>Calculate and use the sums of the interior angles of polygons; use the sum of angles in a triangle and use the angle sum in any polygon to derive the properties of regular polygons;</p> <p>What do you want them to produce to demonstrate learning?</p> <ol style="list-style-type: none"> 1. To complete questions on worksheet after finishing the ppt task 2. To mark their answers 3. To question why answers are wrong and ask their teacher for guidance if needed via Teams on Sharepoint <p>Week 3 Learning Objective: To revise and consolidate Angles in Parallel Lines & Polygons</p> <p>Activities:</p> <p>Complete the ppt angles task assigned to you ‘Year 9 Week 7.’</p> <ul style="list-style-type: none"> • Don’t do it all in one go- spend around 30 minutes on it when you would usually have your Mathematics lesson • Do as much as you can using the videos to help you • If you can, print off the worksheet then complete it on worksheet .if you are unable to print just complete it on paper. • Use the answer scheme to mark your work • Make revision cards on the questions you got wrong and need to work on • If you wish to do more have a go at the maths challenge questions in the extension tasks <p>This link will take you to the folder for week 7work</p> <p>What can they teach to someone else?</p> <p>Can you explain to someone any mistakes you made and why?</p> <p>Can you explain what some of the key words mean to someone?</p> <p>Resources needed: Pen, unit test</p> <p>This will support: Revision of prior work and improve depth of understanding</p>	<p>Key Vocabulary</p> <p><i>Quadrilateral, angle, polygon, interior, exterior, proof, tessellation, symmetry, parallel, corresponding, alternate, co-interior, vertices, edge, face, sides, Pythagoras’ Theorem, sine, cosine, tan, trigonometry, opposite, hypotenuse, adjacent, ratio, elevation, depression, segment, length</i></p> <p>Extension task:</p> <p>https://www.mathsisfun.com/geometry/quadrilaterals-interactive.html</p> <p>https://eng.mathgames.com/skill/KS3.253-identify-angles-by-type</p> <p>(You don’t have to do all at once!)</p>	<p>Signpost to:</p> <p>Websites</p> <p>Share point</p> <p>Frog</p> <p>Mathswatch</p> <p>VLE</p> <p>Nrich.maths.org</p> <p>Bbc bitesize</p> <p>MathsGenie</p>

Week 5 Date: *Monday 8th June -12th June 2020*

Year Group: *9 HIGHER*

Subject: *Mathematics*

Length of Topic: *1 week*