

Teaching and Learning Content: Mathematics
Year Group: 9 Foundation
SpringTerm – Half Term 4



<p>Topics: Polygons Compound Shapes</p>	
<p>Home Learning: Students are expected to complete one piece of home learning every week as well as addressing areas that they have recorded as requiring further attention via their Personal Learning Checklist. The PLC links to corresponding MathsWatch clips and practice questions</p>	
<p>Key Questions:</p> <ul style="list-style-type: none"> • Which quadrilateral has just one pair of parallel sides? • If an isosceles triangle has an angle of 40°, what could the other 2 angles be? • What is the sum of interior angles of a decagon? • What is the size of each interior angle of a decagon? • Do pentagons tessellate repeatedly exclusively with other pentagons? • A square has an area of 36cm^2. What is its perimeter? • What is the area of a sector of radius 10cm and angle 36°? Give your answer in terms of π. 	<p style="text-align: center;">Diagnosis</p> <ul style="list-style-type: none"> • 10 question diagnosis tests for each half term • Retrieval activities from knowledge organisers like starter quizzes • Mini whiteboard activities
<p>Students will:</p> <ul style="list-style-type: none"> • Know the names and properties of 2D shapes • Know the sum of interior angles of triangles and quadrilaterals and find missing angles • Derive the sum of interior angles of polygons and find missing angles • Be able to work out interior and exterior angles of regular polygons • Work out which regular polygons tessellate • Calculate the perimeters of compound shapes after finding missing lengths • Calculate the area of compound shapes and shaded regions • Find the area of sectors. 	<p style="text-align: center;">Therapy</p> <ul style="list-style-type: none"> • Sharing model responses (teacher/student led feedback) • DIRT tasks • Peer to peer support in lessons • Specific highlighted lessons for students
	<p style="text-align: center;">Testing</p> <ul style="list-style-type: none"> • Students will complete an assessment each half term from which they will receive a detailed QLA to continue to highlight areas of weakness into the next half term.