


Subject	Year	Month		
<b>Mathematics</b>	10	May		
<b>Topic:</b>				
<b>Perimeter and area</b>			5 lessons	
Content (Intent)				
<b>Prior Learning</b> Year 9 Area and circumference of circles January Year 9 Surface area of prisms January Year 8 Area and circumference of circles April		<b>Future Learning</b> Year 10 3D forms and volume May Year 11 Circles, cylinders, cones & spheres December		
<b>Objectives</b> <ul style="list-style-type: none"> <li>• Indicate given values on a scale, including decimal value;</li> <li>• Know that measurements using real numbers depend upon the choice of unit;</li> <li>• Convert between units of measure within one system, including time;</li> <li>• Convert metric units to metric units;</li> <li>• Make sensible estimates of a range of measures in everyday settings;</li> <li>• Measure shapes to find perimeters and areas using a range of scales;</li> <li>• Find the perimeter of rectangles and triangles;</li> <li>• Find the perimeter of parallelograms and trapezia;</li> <li>• Find the perimeter of compound shapes;</li> <li>• Recall and use the formulae for the area of a triangle and rectangle;</li> <li>• Find the area of a rectangle and triangle;</li> <li>• Find the area of a trapezium and recall the formula;</li> <li>• Find the area of a parallelogram;</li> <li>• Calculate areas and perimeters of compound shapes made from triangles and rectangles;</li> <li>• Estimate surface areas by rounding measurements to 1 significant figure;</li> <li>• Find the surface area of a prism;</li> <li>• Find surface area using rectangles and triangles;</li> <li>• Convert between metric area measures.</li> </ul>				
<b>Pedagogical notes (implementation)</b>		<b>How will understanding be assessed &amp; recorded (Impact)</b>		
Use questions that involve different metric measures that need converting. Measurement is essentially a practical activity: use a range of everyday shapes to bring reality to lessons. Ensure that students are clear about the difference between perimeter and area. Practical examples help to clarify the concepts, i.e. floor tiles, skirting board, etc.		<b>End of half term</b> no <b>End of Year</b> Year 11 mocks in November		
		<b>How can parents help at home?</b>		
		<b>MathsWatch clips</b>  <b>Qualification KS3:</b> G9, G20abcd, G21b, G22b, G24, G25b  <b>Qualification KS4:</b> 52, 53, 54, 55, 56, 114ab		
<b>Further reading/discussion</b>				
<b>Reading / Enrichment</b> <a href="http://passyworldofmathematics.com/mathematics-of-aircraft-disasters/">http://passyworldofmathematics.com/mathematics-of-aircraft-disasters/</a> <a href="http://passyworldofmathematics.com/my-virtual-home/">http://passyworldofmathematics.com/my-virtual-home/</a>		<b>Literacy</b>	<b>Numeracy Links</b>	<b>Careers Links</b> Designer Product designer Carpenter Builder Town planners Architects