

AWL – Year 8

	Number and Calculations	Shape Space & Measures	Algebra	Data Handling
Excelling	Use percentages and ratio to be a smarter consumer	Recognise similar and congruent shapes and find missing lengths using those facts. <a href="#">Understand trigonometry and use it in finding missing angles and sides in triangles.</a>	Solve quadratic equations in context	Interpret and compare cumulative frequency diagrams and box plots
Extending	Calculate percentage change and original amounts	Use algebra in shape calculations <a href="#">Draw and understand loci</a>	Factorise double brackets <a href="#">Recognise graph shapes and perform basic transformations</a> Understand proportionality <a href="#">Solve quadratic equations</a>	Draw cumulative frequency diagrams and box plots
Embedding	Solve contextual problems using fractions	Understand and be able to find upper and lower bounds of measures <a href="#">Understand angles in polygons, including interior and exterior angles and using angle facts to find missing angles.</a>	Plot curved graphs <a href="#">Multiply out double brackets</a>	Calculate statistics from grouped frequency tables
Secure	Calculate percentage increase and decrease	Calculate circumference and area of sectors <a href="#">Calculate volumes of whole and part cylinders</a> Recognise opposite, corresponding and alternate angles with parallel and perpendicular lines <a href="#">Name and recognise the properties of quadrilaterals</a>	Substitute values into cubic, quadratic and reciprocal graph equations <a href="#">Solve simultaneous equations in context</a>	Draw and interpret Venn diagrams and two way tables <a href="#">Draw and interpret tree diagrams</a>
Developing	Multiply and divide fractions <a href="#">Convert between percentages, fractions and decimals</a>	Apply the transformations: reflection, rotation, translation and enlargement <a href="#">Calculate volumes of prisms</a> Calculate circumference and area of circles	Multiply out single brackets <a href="#">Solve linear inequalities</a> Solve basic linear simultaneous equations <a href="#">Understand the equation of a straight line graph</a>	Draw and interpret possibility spaces <a href="#">Calculate mode, median, mean, range, quartiles and interquartile range from sets of data.</a>
Beginning	Convert mixed numbers and improper fractions <a href="#">Find percentages of amounts</a>	Recognise types of symmetry <a href="#">Identify order and centres of rotation and planes of symmetry</a> Calculate areas of triangles, trapezia and parallelograms	Collect like terms Solve linear equations	Understand relative frequency and probability