

AWL – Year 7

	Number & Calculations	Shape Space & Measures	Algebra	Data Handling
Excelling	Multiply and divide decimals and numbers less than 1. Round to decimal places and significant figures and use in estimation. Recognize and understand indices and standard form	Apply knowledge of straight line graphs to contextual problems.		
Extending	Find the product of prime factors, highest common factor and lowest common multiple of numbers.	Complete group investigations into different aspects of triangles. Calculate speed, distance and time, draw and interpret travel graphs. Use function machines to understand straight line graphs.	Solve harder equations including decimals, fractions and large integer coefficients. Understand linear sequences with substitution and finding the nth term.	Estimate the mean from grouped frequency tables. Draw and interpret cumulative frequency diagrams. Use data from the fitness challenge in PE to create personal statistical diagrams.
Embedding	Calculate multiplying factors and compound interest.	Find sides of triangles using Pythagoras' theorem	Tackle problems such as 'think of a number' puzzles.	Draw and interpret a range of statistical diagrams. Complete a functional task on healthy eating
Secure	Add and subtract mixed numbers. Understand a variety of methods of long multiplication. Calculate percentages	Understand 3 figure bearings, grid references and scale	Multiplying out brackets. Be able to balance equations.	Use questionnaires and tally charts. Understand scales and how to calculate BMI
Developing	Add and subtract directed numbers. Apply directed number to contextual problems i.e. temperature. Application of BODMAS to calculations. Add and subtract fractions. Calculate and simplify ratios.	Calculate angles in triangles and perform area calculations. Plot and identify points in all four quadrants.	Collect algebraic terms including terms with powers & directed number	Find the range, quartiles and interquartile range of discrete data. Recognise and covert imperial and metric units.
Beginning	Multiply and divide directed numbers. Find equivalent fractions and cancel fractions. Know the definitions of and find factors, multiples, primes, squares.	Distinguish between the types of triangles	Collect simple algebraic terms.	Find the mean, mode & median of discrete data