

Year 10 Foundation Scheme of learning 2021-2022 - Term 1- AE-B3

Stretch key learning in italics

Topic	Key learning	Mathswatch Clips	☹	☺	😊
Averages and range	Find the mode, median, mean and range from a list of data	62			
	Find averages from tables	130a & 130b			
	Find averages from charts	64 & 65			
Perimeter and area	Find the area and perimeter of rectangles, triangles, parallelograms and trapezia	52 - 56			
	Calculate the areas and perimeters of compound shapes	52 - 56			
	Find the surface area of a prism	114a & 114b			
	<i>Convert between metric area measures</i>	112			
Fractions, decimals and percentages recap	Compare and order fractions, decimals and integers, using inequality signs	84 & 85			
	Add, subtract, multiply and divide mixed number fractions	71a, 71b, 73, 74			
	Find percentage of a quantity with and without a calculator	86 & 87			
	<i>Find the reciprocal of an integer, decimal or fraction</i>	76			
Assessment 1 on topics taught so far this year					
October half term					
Straight line graphs	Plot and draw graphs of $y = a$, $x = a$, $y = x$ and $y = -x$	96			
	Plot and draw graphs of straight lines of the form $y = mx + c$ using a table of values	96			
	<i>Sketch a graph of a linear function, using the gradient and y-intercept</i>	96 & 97			
	<i>Identify and interpret gradient from an equation $y = mx + c$</i>	159a & 159b			
	<i>Find the equation of a straight line from a graph</i>	159a & 159b			
Real life graphs	Draw, label and scale axes				
	Draw and interpret distance–time graphs	143			
	<i>Interpret gradient as the rate of change in distance–time and speed–time graphs, graphs of containers filling and emptying</i>	143			
Transformations	Draw and describe reflections using a mirror line	48			
	Draw and describe translations using vectors	50			
	Draw and describe rotations using a centre of rotation	49			
	Draw and describe enlargements using positive scale factors	148			

	Understand that similar shapes are enlargements of each other	148			
	<i>Draw and describe enlargements using negative and fractional scale factors</i>	148			

Christmas