

Maths Department

Foundation Scheme of Work

Year 8 - Representations Term 2			
Stage		Description	
	Section A Prerequisites • Can find a fraction of an amount.	Section B Line graphs and scatter graphs • Can find the area and perimeter of a	Section C Probability • Can identify the key features of
Emerging	 Can add and subtract fractions with the same denominators. Can add and subtract fractions with different denominators. 	 shape counting squares. Can find the area of a shape using a formula. 	shapes including angle properties.
Developing	 Can draw axes and label them. Can plot & interpret coordinates (including shape). Negative numbers – linking to Y7 counters Can define parallel and perpendicular, horizontal and vertical. Complete a venn diagram with different sets. Can use simple probability to list outcomes and find probability of an event occurring. Understand that all probability adds up to 1 	 Can plot y= and x= lines on a graph. Can plot y = x and y = -x, understanding the impact of gradient. Can recognise and use lines y = kx with focus on gradient. 	 Can draw and interpret a scatter graphs Can identify linear correlation and the relationship between variables, positive, negative, strong and weak correlations. Draw and use line of best fit with a focus on outliers and risk of extrapolating.
Secure		 Can interpret the gradient of a line. Have an understanding of y intercept. Can plot a line using y = mx + c Can plot graphs with negative gradients 	 Can identify non-linear relationships Can compare qualitative and quantitative and discrete vs. continuous data (words, charts) Can present data in two way tables and frequency tables
Excellence		 Can identify if a coordinate would fall on the line when give a line in the form of y = mx + c. Students explore plotting non-linear graphs and investigate e.g. y = axⁿ. 	 Can complete sample space diagrams and listing outcomes using set notation. Can find the probability from sample space/two way tables/venn diagrams using P(event) notation. Can represent a probability using venn diagram notation. Can list combinations and use the product rule.