Subject	Year	Month	N
Mathematics	10	November	Balcarras
Topic:			
Representing and interpreting data 3 lessons			
Content (Intent)		I	
Prior Learning		Future Learning	
Year 9 Frequency polygons and other bar charts December		Year 10 Scatter graphs November Year 11 Cumulative frequency, box plots, histograms September	
Objectives • Know which charts to use for different types of data sets; • Produce and interpret composite bar charts; • Produce and interpret comparative and dual bar charts; • Produce and interpret pie charts: • find the mode and the frequency represented by each sector; • compare data from pie charts that represent different-sized samples; • Produce and interpret frequency polygons for grouped data: • from frequency polygons, read off frequency values, compare distributions, calculate total population, mean, estimate greatest and least possible values (and range); • Produce histograms with equal class intervals • estimate the median from a histogram with equal class width or any other information, such as the number of people in a given interval; • Produce line graphs: • read off frequency values, calculate total population, find greatest and least values; • Compare the mead and rom a histogram with equal class width or any other information, such as the number of people in a given interval; • Produce line graphs: • read off frequency values, calculate total population, find greatest and least values; • Compare the mean and range of two distributions, or median or mode as appropriate; • Recognise simple patterns, characteristics relationships in bar charts, line graphs and frequency polygons.			
Misleading graphs are not mentioned in the specification but are a useful activity to reinforce this unit. When doing time-series graphs, use examples from science, geography.		End of Year Mocks in April	
		How can parents help at home?	
		MathsWatch clips (Qualification GCSE) 15, 65a, 65b, 128a, 128b, 153,	
Further reading/discussion			
Reading / Enrichment	Literacy	Numeracy Links	Careers Links Statistician Data analyst Business Analyst Economist Actuary