



I Can Statement - Year 8 Maths

Topic Overview - Representing Data	Pre-taught Vocabulary	
In this unit, we will formally extend our knowledge of statistical graphs and charts to describe, interpret, and compare observed data distributions. We will learn to distinguish precisely between different types of variables, including categorical, discrete, continuous, and grouped numerical data. A major focus will be exploring bivariate data through the construction and interpretation of scatter graphs. Within this context, we will analyze linear correlations, identify non-linear relationships, and draw and utilize lines of best fit to make reliable estimations. Additionally, we will construct and interpret sophisticated data displays, including ungrouped and grouped frequency tables, two-way tables, and various charts for grouped discrete and continuous data.	Discrete Data	Continuous Data
	Linear Correlation	Scatter Graph
	Frequency Table	Line of Best Fit
	Two-Way Table	Non-Linear Relationship

RAG Rating:		Start	End	Teacher
1.	I can identify and accurately distinguish between different types of data, including discrete, continuous, and categorical variables.			
2.	I can construct and interpret detailed scatter graphs.			
3.	I can recognise, understand, and describe the nature of a linear correlation between two sets of data.			
4.	I can accurately draw and utilise a line of best fit to predict or estimate values on a scatter graph.			
5.	I can analyse a plotted dataset to identify non-linear relationships between variables.			
6.	I can read, extract information from, and interpret ungrouped frequency tables.			
7.	I can read, extract information from, and interpret grouped frequency tables.			
8.	I can represent grouped discrete data accurately using structured tables and vertical line charts.			
9.	I can represent continuous data grouped into equal class intervals using appropriate graphical layouts.			
10.	I can organise, construct, and interpret two-way tables to compare categorical criteria side-by-side			