

# Year 10 Statistics Learning Journey

## Unit 2 – Processing and Representing Data LJ2

Core knowledge	Reference number	
Population Pyramids – ‘When comparing two populations, why do we use general statements rather than individual figures?’		
Choropleth Maps - ‘Would black represent the most or least dense area?’		
Histograms and Frequency Polygons – ‘Is it possible to draw a frequency polygon without first drawing a histogram?’		
Cumulative Frequency Charts - ‘How can we use a Cumulative Frequency Diagram to estimate or predict values?’		
Shapes Of Distributions – ‘By inspection, how can you tell if a distribution has a negative or positive skew?’		
Histograms of Unequal Class Width - ‘What is the formula for calculating Frequency Density?’		
Misleading Diagrams - ‘List 3 reasons which could make a diagram misleading and then explain why’		
Choosing The Right Format - ‘Why is it important to analyse the type of data before choosing which format to display it?’		
LC Title	Completed	Dirt
Unit 2 LC2 – Processing and Representing Data		
<p><b>Key Vocabulary</b></p> <p><b>Population Pyramids</b> – Show the age groups in a population, usually divided by gender.</p> <p><b>Choropleth Maps</b> – Used to classify regions of a geographical area. Regions are shaded with an increasing depth of colour. A key is used to show what each shade represents.</p> <p><b>Histogram</b> – Represents continuous data, as the data is continuous, there is no gap between the bars.</p> <p><b>Frequency Polygon</b> – Joins the mid-points of grouped data or histogram bars with straight line segments.</p> <p><b>Cumulative Frequency</b> – Cumulative frequency is a ‘<i>running total</i>’ of frequencies.</p> <p><b>Shape Of Distribution</b> – The shape formed by bars in a histogram or by a frequency polygon. Can be <i>symmetrical, positive skew or negative skew</i>.</p> <p><b>Misleading Diagrams</b> – Graphs and charts can be drawn deliberately to mislead or may be unintentionally misleading.</p> <p><b>Format</b> – Data can be displayed in different formats, some show trends well, some show proportions well and some show exact data values.</p>		