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**Mathematics Faculty**

**Year 8 Autumn Term 2 – Delta Scheme**

**Unit 4 Overview - Representing and Interpreting Data**

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| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Representing and Interpreting Data** | I can group discrete and continuous data. |  |  |  |
| I can construct and interpret dual bar charts, compound bar charts, vertical line graphs and pie charts. |  |  |  |
| I can plot scatter graphs and understand correlation. |  |  |  |
| I can calculate averages from a list and a frequency table. |  |  |  |
| I can use averages to compare sets of data. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | **Identifying types of data. Grouping discrete and continuous data** (CM clip 343) | Formative assessment strategies e.g. MWBs, whole class questioning, Diagnostic Questions, SLOP time with self-assessment, Live Marking etc.  Assessment is also supported with our use of ILOs, set through Century Learning and Corbettmaths.  Finally, units are assessed through skills checks and half termly assessments, as part of our Assessment Calendar in Mathematics. | data, discrete, continuous, quantitative, qualitative, group |
| **2** | Interpreting and constructing dual bar charts, compound bar charts and vertical line graphs (CM clips 147 & 148) | dual bar chart, compound bar chart, vertical line graph, interpret, construct, data, axis, label, title |
| **3** | Interpreting and constructing histograms for grouped data with equal class intervals. | histogram, frequency, interval, interpret, construct, data, axis, label, title |
| **4** | Interpreting and constructing pie charts (CM clips 163 & 164) | pie chart, frequency, sector, angle, interpret, construct |
| **5** | **Constructing scatter graphs** and understanding correlation (CM clips 165 & 168) | scatter graph, correlation, positive, negative, axis, label |
| **6** | **Constructing and interpreting two-way tables** (CM clip 319) | two-way table, interpret, construct |
| **7** | Calculating averages from a list (CM clips 50, 53, 56 & 57) | data, average, mean, median, mode, range |
| **8** | Calculating the mean, median, mode and range from a frequency table (CM clips 51 & 54) | data, average, mean, median, mode, range, frequency, frequency table |
| **9** | Comparing data sets using measures of average and spread. | average, mean, median, mode, spread, range, compare |