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 **Mathematics Faculty**

 **Year 9 Autumn Term 2 – Alpha 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 construct and interpret time series graphs. |  |  |  |
| I can calculate averages from grouped frequency tables. |  |  |  |
| I can construct and interpret cumulative frequency diagrams. |  |  |  |
| I can calculate quartiles. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Constructing and interpreting graphs and charts, including histograms with equal class intervals, scatter graphs and pie charts (CM clips 163 – 168) | 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. | histogram, frequency, interval, scatter graph, correlation, positive, negative, pie chart, angle, sector |
| **2** | Constructing time series graphs. Interpreting and analysing trends in time series graphs. (CM clip 382) | time series, trend, analyse |
| **3** | **Estimating the mean, identifying the modal class interval and identifying which class interval contains the median of grouped data** (CM clips 52 & 55) | estimate, average, mean, median, mode, modal, interval, frequency, mid-point |
| **4** | Constructing and interpreting cumulative frequency diagrams (CM clips 153 & 154) | cumulative frequency, median |
| **5** | Calculating quartiles from a set of data | quartile, lower quartile, upper quartile, interquartile range |