**** **Mathematics Faculty**

**Year 8 Autumn Term 2 – Sigma 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 plot scatter graphs, understand correlation and draw lines of best fit. |  |  |  |
| I can construct, interpret and compare pie charts. |  |  |  |
| I can recognise when graphs are misleading. |  |  |  |
| I can calculate averages from a frequency table. |  |  |  |
| I can use averages to compare sets of data. |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Constructing scatter graphs and **understanding correlation** (CM clips 165 & 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. | scatter graph, correlation, positive, negative, axis, label |
| **2** | **Drawing lines of best fit and interpreting data** (CM clips 166 & 167) | scatter graph, correlation, positive, negative, line of best fit, interpolation, extrapolation |
| **3** | Constructing, interpreting and comparing pie charts (CM clips 163 & 164) | pie chart, frequency, sector, angle, interpret, construct |
| **4** | Recognising when graphs are misleading.  | misleading, axis, interval, title, label, class interval |
| **5** | **Calculating the mean, median, mode and range from a frequency table** (CM clips 51 & 54) | data, average, mean, median, mode, range, frequency, frequency table |
| **6** | Comparing data sets using measures of average and spread.  | average, mean, median, mode, spread, range, compare |