** Mathematics Faculty**

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Topic** | **Key Ideas** | **Progress** | | |
| **R** | **A** | **G** |
| **Representing and Interpreting Data** | I can interpret and construct dual and compound bar charts. |  |  |  |
| I can interpret and construct vertical line graphs. |  |  |  |
| I can interpret and construct pie charts. |  |  |  |
| I can interpret and construct grouped frequency tables for discrete and continuous data. |  |  |  |
| I can interpret and construct two-way tables. |  |  |  |
| I can plot scatter graphs and understand correlation. |  |  |  |
| I can find the mean, median, mode and range of a set of data. |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Interpreting and constructing dual bar charts and vertical line graphs (CM clips 147 & 148) | 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. | dual bar chart, vertical line graph, interpret, construct, data, axis, label, title |
| **2** | Interpreting and constructing compound bar charts. | compound bar chart, interpret, construct, data, axis, label, title |
| **3** | **Interpreting pie charts** (CM clip 164) | pie chart, frequency, sector, angle, interpret |
| **4** | Constructing pie charts (CM clip 163) | pie chart, frequency, sector, angle, construct |
| **5** | Interpreting and constructing grouped frequency tables for discrete and continuous data (CM clip 343) | data, discrete, continuous, interval, frequency, table, grouped |
| **6** | Interpreting and constructing two-way tables (CM clip 319) | two-way table, interpret, construct |
| **7** | Constructing and interpreting scatter graphs. Understanding correlation and identifying outliers. (CM clips 165 – 168) | scatter graph, correlation, positive, negative, line of best fit, axis, label, outlier |
| **8** | **Calculating the mean, median, mode and range of sets of data** (CM clips 50, 53, 56 & 57) | data, average, mean, median, mode, range |