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**Mathematics Faculty**

**Year 10 Unit 7 Overview**

**Averages and Range**

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| **Topic** | **Key Ideas** | **Progress** |
| **R** | **A** | **G** |
| **Averages and Range** | I can calculate averages and the range of a list of numbers |  |  |  |
| I can select the most appropriate average to use to compare sets of data |  |  |  |
| I can calculate averages and the range of data in a table and grouped data |  |  |  |
| I can recognise when to use sampling methods to obtain data and I understand how to select a representative sample |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Calculating the mean, median, mode and range from a list of numbers.(CM clips 50, 53, 56 & 57)  | 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 which alternate between Basic Skills Checks one week and then a more individual ILO the following set through Century and Corbettmaths.Finally every unit is assessed half termly as part of our Assessment Calendar in Mathematics. | average, mean, median, mode, range, spread |
| **2** | Comparing sets of data using averages and the range. Recognising the advantages and disadvantages of each type of average.(CM clips 50, 53, 56 & 57) | average, mean, median, mode, range, spread, compare, outlier |
| **3** | **Calculating the mean, median, mode and range from a frequency table**.(CM clips 51 & 54) | average, mean, median, mode, range, frequency |
| **4** | **Estimating the mean of grouped data. Finding the modal class and the interval containing the median of grouped data.**(CM clips 52 & 55) | average, mean, median, mode, modal, interval, estimate, grouped, continuous |
| **5** | Recognising the need for sampling. Understanding how to avoid bias.(CM clips 281 & 282) | sampling, sample, population, random, data, bias, representative |