

## Plan Of Learning For The Year (Unit/Topic/Project Context)

**Half Term 1**

- Personal finance: percentages recap; income tax, national insurance; VAT; exchanging currency.

**Half Term 2**

- Fermi estimation and accuracy.
- Sampling and data: primary and secondary data; quantitative and qualitative data; census, population and sampling methods.

**Half Term 3**

- Representing and interpreting data: graphical representations including bar charts, box plots and stem-and-leaf diagrams; mean and standard deviation; percentiles and cumulative frequency; histograms.

**Half Term 4**

- Saving and borrowing: inflation; budgeting; student loans; loans and mortgages; AER and APR; interest rates.

**Half Term 5**

- Critical analysis: spreadsheet modelling; building a simulation; communicating mathematical approaches and solutions.
- Correlation and regression: scatter diagrams; outliers and product-moment correlation coefficient; correlation and causation; regression lines.

**Half Term 6**

- Normal distribution and confidence intervals: variation in measurements; properties of a normal distribution; using normal distribution to calculate probabilities; modelling with a normal distribution; confidence intervals.

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
<ul style="list-style-type: none"> <li>Self and peer assessment</li> <li>On-going formative assessment during lessons by teacher</li> <li>Student/teacher one-to-one discussions</li> <li>Regular use of the Integral platform for homework</li> <li>Regular use of Integral section tests for homework</li> <li>Regular use of past papers after Feb half term</li> </ul>	<ul style="list-style-type: none"> <li>Wider reading, especially in current affairs journalism: how is data presented? Is it manipulated or presented objectively? How does government policy affect people's personal finances? Etc</li> <li>'More or Less' podcast from Radio 4/BBC Sounds</li> <li>Use of Integral to explore the course – we won't have time for all the rich activities in class.</li> <li>New York Times 'What's going on with this Graph?'</li> </ul>	<ul style="list-style-type: none"> <li>Understanding how personal finance works: how much of your salary you can expect to keep; how to make an informed decision about when and how to borrow money wisely.</li> <li>Careful consideration of the ways that data can be used and misused in wider society to enlighten, persuade, manipulate and deceive.</li> <li>Detailed use of software such as spreadsheets which are essential to the workplace.</li> </ul>

Common misconceptions	Connecting New Knowledge	Challenge for all
<ul style="list-style-type: none"> <li>Reverse percentage errors e.g. when finding VAT from the final price.</li> <li>Confusing measures of spread with measures of central tendency.</li> <li>Believing that correlation implies causation (it doesn't!)</li> </ul>	<ul style="list-style-type: none"> <li>Regular revisiting of existing concepts in new contexts</li> <li>The role of existing knowledge percentages in many different aspects of new learning.</li> <li>Use of technology to enhance learning.</li> </ul>	<ul style="list-style-type: none"> <li>Knowledge Organisers used to give an overview of the learning that will take place and a chance to review the learning that has taken place prior to assessments</li> <li>Regular use of scaffolds and structured practice</li> </ul>

