

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

<p>Half Term 1</p> <ul style="list-style-type: none"> Personal finance: percentages recap; income tax, national insurance; VAT; exchanging currency. <p>Half Term 2</p> <ul style="list-style-type: none"> Fermi estimation and accuracy. Sampling and data: primary and secondary data; quantitative and qualitative data; census, population and sampling methods. <p>Half Term 3</p> <ul style="list-style-type: none"> 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. 	<p>Half Term 4</p> <ul style="list-style-type: none"> Saving and borrowing: inflation; budgeting; student loans; loans and mortgages; AER and APR; interest rates. <p>Half Term 5</p> <ul style="list-style-type: none"> 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. <p>Half Term 6</p> <ul style="list-style-type: none"> 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.
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Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
<ul style="list-style-type: none"> Self and peer assessment On-going formative assessment during lessons by teacher Student/teacher one-to-one discussions Regular use of the Integral platform for homework Regular use of Integral section tests for homework Regular use of past papers after Feb half term 	<ul style="list-style-type: none"> 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 'More or Less' podcast from Radio 4/BBC Sounds Use of Integral to explore the course – we won't have time for all the rich activities in class. New York Times 'What's going on with this Graph?' 	<ul style="list-style-type: none"> 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. Careful consideration of the ways that data can be used and misused in wider society to enlighten, persuade, manipulate and deceive. Detailed use of software such as spreadsheets which are essential to the workplace.

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