



## Academic Learning Journey - Key Stage 4

### Statistics



**Intent :** This qualification incorporates numerous examples of real-life data and contexts, which build skills that students will use in other subjects, such as science and geography. Based on the principles of the statistical enquiry cycle, students gain a rounded understanding of how to interpret and apply data to a number of scenarios, both across subjects and in the real world

#### **GCSE Exam Board - Assessment objectives (or other)(if applicable)**

Edexcel (GCSE)

- Use of statistical techniques in a variety of authentic investigations, using real-world data.
- Identify trends through carrying out appropriate calculations and data visualisation techniques
  - Critically evaluate data, calculations and evaluations that would be commonly encountered in their studies and in everyday life
- Understand how technology has enabled the collection, visualisation & analysis of large quantities of data to inform decision-making
- Understand ways that data can be organised, processed and presented & apply appropriate mathematical and statistical formulae

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	1a Types of data	1c Sampling methods	2a Qualitative & discrete data	2c Tabulation	3b Measures of dispersion	Catch up & exam preparation
	1b Population sampling	1d Planning & collecting data		3a Measures of central tendency		3c Box plots, skewness, calculating and representing outliers
	1c Sampling methods	Chapter 1 project	2b Continuous data	Chapter 2 project	7a Interpreting index numbers in context and simple calculations	
Year 11	4a Describing correlation by inspection, lines of best fit and Spearman's rank correlation coefficient, Pearson's product moment correlation coefficient	6a Simple probability and theoretical probability	8a Binomial distribution	8c Quality assurance	Revision Class teacher will use classwork, homework, mocks and other assessment to help plan revision of key knowledge and skills.	Revision Class teacher will use classwork, homework, mocks and other assessment to help plan revision of key knowledge and skills.
		6b Probability from two-way tables, sample space diagrams, tree diagrams and Venn diagrams	8b Normal distribution and standardised scores	Revision		
	5a Calculating moving averages, seasonal and cyclic trends	Chapter 4, 5 & 6 project				