

Year 7 and 8 Statistics Work

Overarching topic: Statistics

<p>Why is this topic being studied at this time?</p>	<p>A knowledge of data handling and analysis skills is vital in so many aspects of life, this will be studied alongside the rest of the curriculum so that it can be gradually built upon and developed. A range of technology will be integrated to support students in improving these skills at the same time.</p>
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<p>How does it fit into the wider subject curriculum?</p>	<p><i>"There are three kinds of lies: lies, damn lies and statistics"</i> attributed to former British Prime Minister Benjamin Disraeli, it suggests that statistics can be produced in particular ways to persuade people of a point of view. For this reason, it is vital that we are able distinguish between reliable and suitable statistics and those that aren't. Statistics are also used in most careers to analyse and present information.</p>
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	Essential	Core	Ambitious
<p>The Big questions (what questions will students be able to answer with mastery of this topic?)</p>	<p>What are averages and spreads and how are they calculated from listed data? What is the difference between discrete and continuous data? What types of frequency charts are there?</p>	<p>How are averages and spreads calculated from frequency tables? How can pie charts be drawn and how are they interpreted? What is a stem and leaf diagram and how are they used? How can a time series graph be drawn and used?</p>	<p>How are averages chosen to represent data in the best way? How can statistics be manipulated? Why do we use multiple averages and measures of spread? What is a moving average? How are charts and graphs chosen to represent data?</p>

	<p>The sophistication and application of skills will become more advanced as students' progress through the essential, core and ambitious knowledge</p>	
	Skill/technique	How will this skill be developed?
The Key skills/techniques	<p>Literacy</p>	<p>Exposure in lessons: use in different contexts. Use recall to reinforce vocabulary.</p>
	<p>Application</p>	<p>Understand Charts: draw and interpret charts.</p>

Throughout year 7 and 8, alongside the content in the provision map here, students will embrace the statistics elements of the curriculum through a bespoke set of projects integrating the use of technology. This will help to develop their skills using Excel and other mathematical software while covering various aspects of data handling and data analysis.