

Subject: Statistics Year 10 Ability All

Half Term 5 / weeks	Week 1-4	Week 5-6
Topic	Block 10 – Statistical Analysis	Reteach and Retention
Topic overview	To be able to analyse data and draw appropriate conclusions.	Focus on the process of reteach and retention, knitting together the learning in reaction to the assessments completed
Pupils will learn...		
Components	<ul style="list-style-type: none"> • Interpret data related to rates of change over time • Use different types of index numbers and weighted index numbers in context • Know and interpret the characteristics of a normal distribution • To be able to interpret and explain why diagrams are misleading • To understand the quality assurance process 	Staff complete a program of adaptive reteaching on specific topics based on the individual/class needs within the group. Regular assessments are used to identify gaps in learning. Any gaps found are then addressed in lessons to help support learning and retention. Clear areas for improvement are monitored.
What pupils should already know (prior learning components)	Students should already be aware of the SEC and the collection and processing elements within it, knowing from previous blocks how to collect data, present diagrams and perform relevant calculations.	All the Statistics content will have been covered by this point. Staff will use departmental tracking documents to analyse the gaps in learning from the most recent assessments and all previous assessments. The ability to structure and breakdown a problem-solving question as exemplified in the TFI questions throughout the course.
Transferrable knowledge (skills)	The ability to draw valid conclusions from data and to criticise conclusions already drawn is an essential skill both in today's society but also in a range of other subjects both at GCSE and at A Level.	This activity should serve to highlight and address areas of weakness in teaching and learning or retention. This early intervention to understand specific key areas for improvement or development. This should help to build confidence and improve students' ability to answer these and directly sequential problems.
Key vocabulary pupil will know and learn	Index, weighted index, characteristic, normal distribution, misleading	
Assessment activities	Block 10 covered in Test 5 Homework available for after each block Around this time of the year students will be entered into End of Year tests.	AFL and adaptive teaching will continue to support staff to assess the address areas.
Resources available	Template lessons available for each block. Latest edition of textbook available. Certain Hegarty quizzes are suitable but not every topic features online	Before any assessments are completed, revision and guidance materials are provided for students to assist in independent study.

<p>Notes</p> <p>Why this topic is important...</p>	<p>This final block closes the statistical enquiry cycle by focusing on drawing conclusions and inferences from results. This allows the whole cycle to be completed by students from hypothesis to data collection to diagrammatic and numerical analysis to final interpretation of results. Consideration is given to misleading statistic interpretations and how to spot and criticise these. Finally the quality assurance process is studied so students can learn how to ensure that statistics are correctly applied to studies.</p>	<p>This is an important point in the curriculum plan that enables the teacher to review the gaps in learning for the class. The half-termly assessments are used to track students' progress and enable teachers to react quickly to any gaps in knowledge and prepare students for the next assessment. The feedback and modelling of the exam answers enables students to pick up exam techniques and the ability to communicate effectively.</p>
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