

SUMMER 2024

Subject: Statistics

Year: 10 (GCSE)

Topic(s) to be covered

Unit 4 – Scatter Graphs and Correlation

Topic 4.1 – Draw and create scatter graphs understanding they are used to show correlation: positive, negative and no correlation.

Topic 4.2 – Understand and be able to interpret the different types of correlation in context of the question. Know that just because there is correlation does not imply causation.

Topic 4.3 – Use lines of best fit to read and predict values from a scatter graph. Calculate with equations of lines of best fit.

Topic 4.4 – Calculate and interpret Spearman's Rank Correlation Coefficient, being able to put the interpretation in context of the question.

Topic 4.5 – Be able to interpret values of Pearson Product Moment Correlation Coefficient.

Unit 5– Probability

Topic 1.1 – Calculating simple probabilities from events, two way tables and real life situations

Topic 1.2 – Calculating the expected number of outcomes from events and using these to predict future probabilities, and comparing these to real-life experimental probabilities

Topic 1.3 – Calculating probabilities of repeated events using tree diagrams or otherwise

Topic 1.4 – Calculate with conditional probability (higher topic only)

Assessment Procedures:

Following each topic area, students will sit a topic assessment which will be graded from 1-9 based on GCSE levels and used to inform us of your child's progress. A closing the gap topic consolidation sheet will be in your child's book on green paper, this will show you child the areas to develop, and areas of strength to help them improve and target their revision. They will complete a Wow, How Now to get them to close the gap on missing knowledge.

Mock assessments in both Year 10/Yr11 will be carried out and assessed in order to identify personalised targets/area for improvement.

Homework guidance:

Homework will be set at least once a week. The purpose of the homework will either be to consolidate work done during the lesson or to find out something new to discuss at the following lesson. Homework will be set on paper and a copy of the sheet will be uploaded onto SYNERGY.

How can you help?

Any extra Mathematics or Statistics you can encourage your child to do will help with their success in the subject. Students are always encouraged to seek extra help from their teachers to help them make good progress Statistics.

1. Ensure your child completes homework in time and shows all working out on their homework sheet or in their book.
2. Purchasing a Statistics 9-1 revision guide to use at home to assist them in their learning and consolidation of a topic.
3. Encourage your child to look for statistics in the news or in other areas of life. Getting them to think and question the reliability of the statistics in the news will help them become more confident and able in, analysing patterns and trends in data, and the reliability and validity of claims based on statistics.
4. Encourage the use the websites on the revision list given to revise topics they are unsure of or if they are stuck on homework.

Equipment needed:

- Pencil, ruler, calculator, rubber, pen, protractor, compass.

Textbooks:

Our scheme of work follows the Pearson Edexcel 9-1 Statistics GCSE Student book.