

## Curriculum Overview:

The Edexcel GCSE in Statistics provides students with the opportunity to develop skills in the following areas: planning a statistical enquiry, collecting data, processing, analysing and representing data, interpreting and evaluating results, communicating plans, results and conclusions in a variety of forms, including using ICT.

The Edexcel GCSE in Statistics requires students to develop knowledge and understanding in the following areas: Planning and data collection, processing, representing and analysing data, reasoning, interpreting and discussing results and probability.

The course actively engages students in an accessible and relevant discipline, helps students acquire knowledge and understanding of statistical techniques and concepts, encourages statistical problem solving, develop student understanding of the importance and limitations of statistics, supports students in their progression through statistics and other related disciplines.

The Edexcel GCSE in Statistics is assessed through:

1. One written paper lasting 2 hours, 100 marks in total
2. An internal assessment with controlled conditions (controlled assessment tasks) which accounts for 25%.

Autumn	Spring	Summer
<ul style="list-style-type: none"> <li>• Multiple, composite &amp; percentage bar chart</li> <li>• Chloropeth Maps</li> <li>• Population Pyramids</li> <li>• Comparative pie charts</li> <li>• Misleading graphs</li> <li>• Census</li> <li>• Questionnaires</li> <li>• Pilot surveys</li> <li>• Random sampling</li> <li>• Stratified sampling</li> <li>• Other sampling</li> <li>• Stem and Leaf</li> <li>• Histogram</li> <li>• Averages</li> <li>• Capture/Recapture</li> <li>• Two way table</li> <li>• Probability and odds</li> <li>• Tree diagrams</li> <li>• Venn diagrams</li> <li>• Line of best fit and estimation.</li> <li>• Equation of line of best fit</li> <li>• Non-linear models</li> <li>• Spearman's Rank Correlation</li> <li>• Cumulative Frequency curve</li> <li>• IQR</li> </ul>	<ul style="list-style-type: none"> <li>• Drawing box plot</li> <li>• Calculating outliers</li> <li>• Comparing 2 or more distributions</li> <li>• Calculating moving averages</li> <li>• Plotting moving averages on a graph</li> <li>• Drawing and using trend lines</li> <li>• Seasonal variation</li> <li>• Calculating standard deviation</li> <li>• Standardised scores</li> <li>• Simple index numbers</li> <li>• Weighted index numbers</li> <li>• Chain based index numbers</li> <li>• Geometric mean</li> <li>• Data from table</li> <li>• Simulations</li> <li>• The binomial distributions</li> </ul>	<p>GCSE Statistics Exam 11<sup>th</sup> June 2015 pm</p>

## Homework & Assessments Overview:

Pupils are given weekly homework that is either exam related, extending classroom learning or consolidating classwork. Homework at KS4 are written tasks only. This is to reflect the expectations of assessment requirements.

During the mock exam period or closer to the actual GCSE Exam time, whole exam papers may be given for additional work. We also use Pre Public Examinations. These are exam papers that try to closely predict what may come up in the actual exams. It is essential that pupils attend collapsed timetable sessions when these papers are published online from organisations such as PiXL.

## Useful Websites:

[www.dropbox.com](http://www.dropbox.com) **Past Exam papers**

Username: swanleae1@gmail.com

Password: square321

[www.mymaths.co.uk](http://www.mymaths.co.uk) **Slides, questions and self-marking**

Username: swanlea

Password: triangle

[www.mathswatchvle.com](http://www.mathswatchvle.com) Video Tutorials and Worksheets

Centre Id: swanlea

Username: square

Password: square

## Practical tips / activities for parents to support learning at home:

- Homework, please ensure you check the homework your child receives and make sure they complete it on time. If your child does the homework on-time, the immediate consolidation of this has better impact of the long term retention of topics taught.
- Do extra work at home, independent study/learning; pupils who do extra work at home independently are better at managing their own learning. A simple example is when pupils independently learn something new and don't understand, and then they will always ask an adult. When they are explained to, they have a genuine interest and retain the information better, than just be told to learn something for the sake of it.
- Equipment/Organisation, please ensure that your children have a geometry Set and Calculator. The best learners are the best prepared.
- Exam practice - it is essential that pupils sit at home and try exam papers in exam and timed conditions. It is like practicing penalty shoot-outs in Football. Do you want to have your first go at a penalty shoot-out for the first time at the World Cup Final?
- Revision Guides - there are revision guides available for sale in school, in shops and online.