

Year 10 Statistics Curriculum

GCSE Foundation Statistics (AQA)

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Lesson 1</u> – Admin, “The Data Handling Cycle” - Intro - Hypotheses</p> <p><u>Lesson 2</u> – Types of data (quantitative, qualitative, discrete, continuous, primary, secondary)</p> <p><u>Lesson 3</u> – Variables 1 – Explanatory/ Response/ Extraneous & Bias</p> <p><u>Lesson 4</u> - Questionnaires – designing / interpreting (good/bad questions)</p> <p><u>Lesson 5</u> – Sampling 1 – Terms (Population, sample frame, sample size) & Convenience sampling</p> <p><u>Lesson 6</u> - Sampling 2 – Random & Stratified</p> <p><u>Lesson 7</u> – Sampling 3 – Systematic, Cluster, Quota</p> <p><u>Lesson 8</u> – Tally/ Grouped frequency tables – creating from raw data</p> <p><u>Lesson 9</u> – Multiple bar chart, Composite bar chart, percentage bar chart – interpreting (drawing if time)</p> <p>Pictograms, Bar chart, Bar line chart, Dual bar chart,</p> <p><u>Lesson 10</u> - Two-way tables – drawing/ interpreting</p> <p>Pie chart, Grouped Frequency Diagram, Frequency polygon</p> <p><u>Independent Learning (Homework):</u> Exam-Style questions</p>	<p><u>Lesson 1</u> – Probability 1 – Terminology / as fractions</p> <p><u>Lesson 2</u> – Probability 2 - Sample Space Diagrams- drawing/ interpreting</p> <p>Mutually exclusive, independent events</p> <p><u>Lesson 3</u> – Probability 3 – Tree diagrams – drawing/ interpreting</p> <p><u>Lesson 4</u> - Conditional probability</p> <p><u>Lesson 5</u>– MMR 1- Median, Range from raw data</p> <p><u>Lesson 6</u> – MMR 2– Mean, Mode from raw data</p> <p><u>Lesson 7</u> – MMR 3- from simple frequency tables</p> <p><u>Lesson 8</u> – MMR 4 - Mean & Modal class - grouped frequency tables</p> <p><u>Lesson 9</u> – MMR 5 – Moving averages / trends</p> <p><u>Lesson 10</u> – Choosing appropriate average – pros/cons of</p> <p><u>Independent Learning:</u> Exam-Style questions</p>	<p><u>Lesson 1</u> – IQR – from raw data/ Comparing MMR</p> <p><u>Lesson 2</u> – Charts & Diagrams 1 – Choropleth maps/ Population pyramids</p> <p><u>Lesson 3</u> – Charts & Diagrams 2- Box Plots - Drawing</p> <p><u>Lesson 4</u> – Charts & Diagrams 3 - Box Plots – Interpreting / comparing</p> <p>Stem & Leaf</p> <p><u>Lesson 5</u> – Index numbers & in context</p> <p><u>Lesson 6</u> – Cumulative Frequency 1 – Step Polygons</p> <p><u>Lesson 7</u> – Cumulative Frequency 2 – CF curve</p> <p><u>Lesson 8</u> – Cumulative Frequency 3 – Box plots from - interpreting</p> <p><u>Lesson 9</u> – Cumulative Frequency 3 – Interpreting (Median & IQR, percentiles)</p> <p><u>Lesson 10</u> - Expectation, theoretical vs. experimental P from tables</p> <p><u>Independent Learning:</u> Exam-Style questions</p>
Assessment	Pre-Assessment (Quizizz), Post-Assessment (Quizizz) Written End of Cycle Assessment (Foundation)	Pre-Assessment (Quizizz), Post-Assessment (Quizizz) Written End of Cycle Assessment (Foundation)	Pre-Assessment (Quizizz), Post-Assessment (Quizizz) Past GCSE series (Higher)

Year 11 Statistics Curriculum

GCSE Foundation Statistics (AQA)

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Lesson 1</u> – Admin and Hypotheses</p> <p><u>Lesson 2</u> – Venn Diagrams</p> <p><u>Lesson 3</u> - Conditional Probability</p> <p><u>Lesson 4</u> – Scatter Graphs 1 – Drawing</p> <p><u>Lesson 5</u> – Scatter Graphs 2 – Correlation / LOBF (extrapolation & interpolation)</p> <p><u>Lesson 6</u> – Scatter graphs 3 – LOBF using Double Mean</p> <p><u>Lesson 7</u> – Scatter Graphs 4 – Spearman’s rank Correlation coefficient - interpreting</p> <p><u>Lesson 8</u> – Constraints (Data handling cycle)</p> <p><u>Lesson 9</u> – Spreadsheets – Cleaning</p> <p><u>Lesson 10</u> – no lesson (Year 11 PPEs)</p> <p><u>Independent Learning:</u> Exam-Style questions</p>	<p><u>Lesson 1</u> – MMMR from raw data & frequency tables recaps</p> <p><u>Lesson 2</u> – CF graphs & box plots recaps</p> <p><u>Lesson 3</u> – Time series 1 - plotting and trend</p> <p><u>Lesson 4</u> – Time series 2 - moving averages and plotting</p> <p><u>Lesson 5</u> – Birth and death rates</p> <p><u>Lesson 6</u> –</p> <p><u>Lesson 7</u> –</p> <p><u>Lesson 8</u> –</p> <p><u>Lesson 9</u> –</p> <p><u>Lesson 10</u> –</p> <p><u>Independent Learning:</u> Exam-Style questions</p>	<p><u>Lesson 1</u> –</p> <p><u>Lesson 2</u> –</p> <p><u>Lesson 3</u> –</p> <p><u>Lesson 4</u> –</p> <p><u>Lesson 5</u> –</p> <p><u>Lesson 6</u> –</p> <p><u>Lesson 7</u> –</p> <p><u>Lesson 8</u> –</p> <p><u>Lesson 9</u> –</p> <p><u>Lesson 10</u> –</p> <p><u>Independent Learning:</u> Exam-Style questions</p>
Assessment	Full PPEs, two Past GCSE Papers from the same year	Weekly past papers in class as preparation for final GCSE exams Full PPEs, two Past GCSE Papers from the same year	Final exams - three 90 minute papers set by AQA



Year 10 Statistics Curriculum

GCSE Higher Statistics (AQA)

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Lesson 1</u> – Admin/ ‘The Data Handling Cycle’</p> <p><u>Lesson 2</u> – Types of data (quantitative/ qualitative, discrete/ continuous, primary/ secondary/ tertiary)</p> <p><u>Lesson 3</u> – Hypotheses</p> <p><u>Lesson 4</u> – Variables – Explanatory, response, extraneous / Control group</p> <p><u>Lesson 5</u> – Sampling 1 – Convenience, random, systematic, cluster</p> <p><u>Lesson 6</u> – Sampling 2 - Quota, Stratified</p> <p><u>Lesson 7</u> – MMR – simple/ grouped frequency tables</p> <p><u>Lesson 8</u> – Multiple bar chart, Composite bar chart, percentage bar chart – drawing and interpreting</p> <p><u>Lesson 9</u> – Grouped frequency diagrams and grouped frequency polygons</p> <p><u>Lesson 10</u> – Box Plots 1 – calculating IQR from raw data & drawing box plots</p> <p><u>Independent Learning:</u> Exam-Style questions</p>	<p><u>Lesson 1</u> – Box plots 2 – interpreting / skew</p> <p><u>Lesson 2</u> – Skew – describing & calculating</p> <p><u>Lesson 3</u> – Time Series 1 – Plotting & drawing trend lines</p> <p><u>Lesson 4</u> – Time Series 2 – Calculate & plot moving averages</p> <p><u>Lesson 5</u> – Time Series 3 – Mean seasonal variation</p> <p><u>Lesson 6</u> – MMR 1 – calculating outliers using IQR</p> <p><u>Lesson 7</u> – MMR 2 – Outlier effects on MMR</p> <p><u>Lesson 8</u> – MMR 3 – Box plots & outliers</p> <p><u>Lesson 9</u> – Geometric mean/ weighted mean</p> <p><u>Lesson 10</u> – Index numbers 1 – Index numbers / weighted index numbers</p> <p><u>Independent Learning:</u> Exam-Style questions</p>	<p><u>Lesson 1</u> – Index numbers 2 – RPI, CPI and real life applications</p> <p><u>Lesson 2</u> – Birth & Death Rates 1 - calculating</p> <p><u>Lesson 3</u> – Birth & Death rates 2 – comparing / describing trends</p> <p><u>Lesson 4</u> – Cumulative Frequency – drawing cf curves & step polygons</p> <p><u>Lesson 5</u> – Cumulative Frequency – Reading – median/ IQR / drawing box plots</p> <p><u>Lesson 6</u> – Cumulative Frequency -application questions</p> <p><u>Lesson 7</u> – Cumulative Frequency - Deciles/IDR, Percentiles/ IPR</p> <p><u>Lesson 8</u> – Petersen’s Capture-Recapture</p> <p><u>Lesson 9</u> – Comparative pie charts 1 – drawing</p> <p><u>Lesson 10</u> – Comparative pie charts 2 - interpreting</p> <p><u>Independent Learning:</u> Exam-Style questions</p>
Assessment	Pre-Assessment (Quizizz), Post-Assessment (Quizizz) Written End of Cycle Assessment (Higher)	Pre-Assessment (Quizizz), Post-Assessment (Quizizz) Written End of Cycle Assessment (Higher)	Pre-Assessment (Quizizz), Post-Assessment (Quizizz) Past GCSE paper Series (Higher)



Year 11 Statistics Curriculum

GCSE Higher Statistics (AQA)

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Lesson 1</u> – Histograms (unequal width) 1 – drawing</p> <p><u>Lesson 2</u> – Histograms (unequal width) 2 – interpreting</p> <p><u>Lesson 3</u> – Scatter Graphs – visual LOBF/ interpolation & extrapolation</p> <p><u>Lesson 4</u> - Scatter Graphs – LOBF & Double Mean</p> <p><u>Lesson 5</u> – Scatter Graphs – Equation of regression line</p> <p><u>Lesson 6</u> – Correlation 1 – calculating / interpreting Spearman's Rank</p> <p><u>Lesson 7</u> – Correlation 2 - calculating Spearman's Rank with duplicates and comparing with PPMCC</p> <p><u>Lesson 8</u> – Standard Deviation – Calculating</p> <p><u>Lesson 9</u> – Standard Deviation Interpreting</p> <p><u>Lesson 10</u> - no lesson (Year 11 PPEs)</p> <p><u>Independent Learning:</u> Exam-Style questions</p>	<p><u>Lesson 1</u> – The Normal Distribution</p> <p><u>Lesson 2</u> – Standardised Scores (comparing distributions)</p> <p><u>Lesson 3</u> – Quality Assurance and Control Charts</p> <p><u>Lesson 4</u> – The Binomial Distribution</p> <p><u>Lesson 5</u> –_Spreadsheets – Cleaning</p> <p><u>Lesson 6</u> – Relative Risk ratings</p> <p><u>Lesson 7</u> –</p> <p><u>Lesson 8</u> –</p> <p><u>Lesson 9</u> –</p> <p><u>Lesson 10</u> –</p> <p><u>Independent Learning:</u> Exam-Style questions</p>	<p><u>Lesson 1</u> –</p> <p><u>Lesson 2</u> –</p> <p><u>Lesson 3</u> –</p> <p><u>Lesson 4</u> –</p> <p><u>Lesson 5</u> –</p> <p><u>Lesson 6</u> –</p> <p><u>Lesson 7</u> –</p> <p><u>Lesson 8</u> –</p> <p><u>Lesson 9</u> –</p> <p><u>Lesson 10</u> –</p> <p><u>Independent Learning:</u> Exam-Style questions</p>
Assessment	Full PPEs, three Past GCSE Papers from the same year	Weekly past papers in class as preparation for final GCSE exams Full PPEs, three Past GCSE Papers from the same year	Final exams - three 90 minute papers set by AQA

