

AUTUMN 1

Processing and representing data

Bar charts, Pictograms, Line Graphs, Two-way Tables, Stem and Leaf diagrams, Pie charts, Population Pyramids, Choropleth Maps, Histograms, Frequency Polygons, Cumulative Frequency Diagrams, Misleading Diagrams.

Prior Learning

Statistical Diagrams (Year9Sum1/ Year7Spr1/ Year 10HSum1 or 10FAut2).

AUTUMN 2

Collection of data

Types of Data, Populations, Peterson Capture-Recapture Formula, Sampling, Data Collection, Questionnaires, Problems with Collecting Data, Controlling Extraneous Variables, Designing Investigations.

Prior Learning

Sampling (Year 10HSum1).

SPRING 1

Summarising data

Averages, Averages from Frequency tables, Transforming Data, Geometric and Weighted Mean, Measures of Dispersion, Standard Deviation, Box Plots and Outliers, Skewness, Comparing Data.

Prior Learning

Averages (Year7Spr1/ Year9HSpr2 or Year9FAut2).
Box Plots (Year10HSum1).

SPRING 2

Scatter diagrams and correlation

Scatter graphs, Interpolation and Extrapolation, Spearman's Rank, Pearson's Product Moment Correlation Co-efficient.

Prior Learning

Scatter Graphs (Year7Spr1/ Year9HSum1).

SUMMER 1

Time series

Line Graphs, Trend lines and Seasonal Variations, Moving Averages.

Prior Learning

Line Graphs (Year9HSum1 or Year9FAut2).

SUMMER 2

RAR

Teachers will use assessment data to revisit topics to improve these skills.

Assessment and QLA

Students will receive personalised feedback and revisit personalised topics.

Prior Learning

Pupils will have been exposed to content covered over the entire year.

CAREERS LINKS

Accountancy, banking insurance, bookmaking, risk analyst, news reporting, analyst, business person, performance analyst. actuaries, economists, meteorologist.

CHARACTER LINKS

Perseverance and determination skills are fostered (performance virtues) particularly when students do not arrive at the correct answer first time and when trial and error skills are needed.

KEY ASSESSMENT DATES

Year 10 will have an assessment at the end of every unit (every half term). They will have one large assessment in July which will test all the topics that the students have covered.