

THE STATISTICS CURRICULUM AT SANDYMOOR OA YEAR



Learning to interpret the world around us and distinguish between facts and fake news!

Year 11



6 Probability

- 6.1 The meaning of probability
- 6.2 Experimental probability
- 6.3 Using probability to assess risk
- 6.4 Sample space diagrams
- 6.5 Venn diagrams
- 6.6 Mutually exclusive and exhaustive events
- 6.7 The general addition law
- 6.8 Independent events
- 6.9 Tree diagrams
- 6.10 Conditional probability
- 6.11 The formula for conditional probability



Endpoint assessment

5 Time series

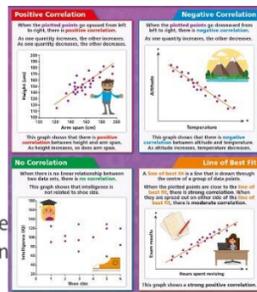
- 5.1 Line graphs and time series
- 5.2 Trend lines
- 5.3 Variations in a time series
- 5.4 Moving averages
- 5.5 Estimating seasonal variations and making predictions



CHECK POINT

4 Scatter diagrams and correlation

- 4.1 Scatter diagrams
- 4.2 Correlation
- 4.3 Causal relationships
- 4.4 Line of best fit
- 4.5 Interpolation and extrapolation
- 4.6 The equation of a line of best fit
- 4.7 Spearman's rank correlation coefficient
- 4.8 Calculating Spearman's rank correlation coefficient
- 4.9 Pearson's product moment correlation coefficient



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Endpoint assessment

SUMMER TERM

3 Summarising data

- 3.1 Averages
- 3.2 Averages from frequency tables
- 3.3 Averages from grouped data
- 3.4 Transforming data
- 3.5 Geometric mean and weighted mean
- 3.6 Measures of dispersion for discrete data
- 3.7 Measures of dispersion for grouped data
- 3.8 Standard deviation
- 3.9 Box plots and outliers
- 3.10 Skewness
- 3.11 Deciding which average to use
- 3.12 Comparing data sets
- 3.13 Making estimates



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2 Processing and representing data

- 2.1 Tables
- 2.2 Two-way tables
- 2.3 Pictograms
- 2.4 Bar charts
- 2.5 Stem and leaf diagrams
- 2.6 Pie charts
- 2.7 Comparative pie charts
- 2.8 Population pyramids
- 2.9 Choropleth maps
- 2.10 Histograms and frequency polygons
- 2.11 Cumulative frequency charts
- 2.12 The shape of a distribution
- 2.13 Histograms with unequal class widths
- 2.14 Misleading diagrams
- 2.15 Choosing the right format

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Endpoint assessment

SPRING TERM

1 Collection of data

- 1.1 Describing data
- 1.2 Grouping data
- 1.3 Primary and secondary data
- 1.4 Populations
- 1.5 Petersen capture-recapture formula
- 1.6 Random sampling
- 1.7 Non-random sampling
- 1.8 Stratified sampling
- 1.9 Collection of data
- 1.10 Questionnaires and interviews
- 1.11 Problems with collected data
- 1.12 Controlling extraneous variables
- 1.13 Hypotheses
- 1.14 Designing investigations



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AUTUMN TERM

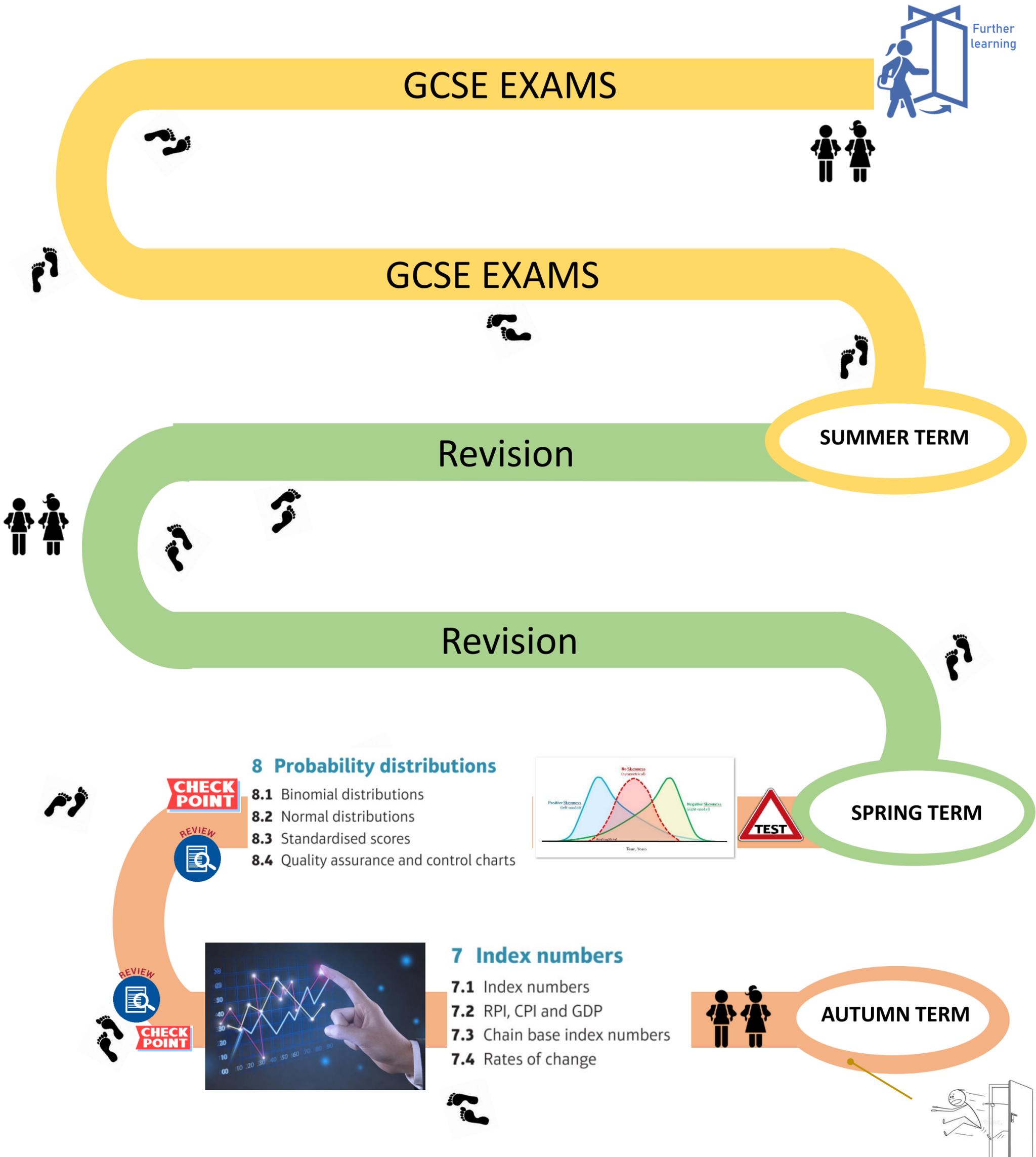


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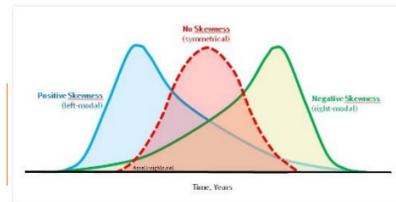


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8 Probability distributions

- 8.1 Binomial distributions
- 8.2 Normal distributions
- 8.3 Standardised scores
- 8.4 Quality assurance and control charts



7 Index numbers

- 7.1 Index numbers
- 7.2 RPI, CPI and GDP
- 7.3 Chain base index numbers
- 7.4 Rates of change



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REVIEW

REVIEW

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Further Learning

SUMMER TERM

SPRING TERM

AUTUMN TERM

GCSE EXAMS

GCSE EXAMS

Revision

Revision