

# Advance information June 2022

## GCSE Statistics (8382)

### Version 1.0

Because of the ongoing impacts of the Coronavirus (COVID-19) pandemic, we are providing advance information on the focus of June 2022 exams to help students revise.

This is the advance information for GCSE Statistics (8382).

### Information

- This advance information covers all examined components.
- There are no restrictions on who can use this.
- The format/structure of the papers remains unchanged.
- For each paper the list shows the major focus of questions.
- The information is presented in specification order and not in question order.
- You are **not** permitted to take this advance information into the exam.
- There are separate lists for Foundation and Higher tiers.

### Advice

- The following areas of content are suggested as key areas of focus for revision and final preparation, in relation to the June 2022 examinations.
- Students and teachers should consider how to revise other parts of the specification, for example to review whether other topics may provide knowledge which helps your understanding in relation to the areas being tested in June 2022. Statistics by nature is a synoptic subject and other aspects of the content may be required when answering questions.
- Students will be credited for using any relevant or appropriate knowledge from any topic areas when answering questions.

---

## Focus of the June 2022 exam

---

### **Foundation Tier Paper 1 8382/1F June 2022**

#### **Selection and Collection of Data**

Hypothesis  
Types of data  
Primary and secondary data  
Data source  
Random sample  
Collected data  
Processing data  
Reliability

#### **Representations and their Interpretation**

Pictogram  
Tally chart  
Choropleth  
Population pyramid  
Scatter diagram  
Bar chart  
Percentage composite bar chart  
Appropriate diagram  
Criticise diagram  
Secondary data table  
Interpret graph

#### **Calculation and Interpretation of Measures**

Skew  
Trends  
Moving average  
Birth rate  
Consumer Price Index (CPI)  
Index number  
Causation

#### **Probability**

Simple probability  
Risk  
Independent events  
Two-way table

---

**Foundation Tier**  
**Paper 2 8382/2F June 2022**

**Selection and Collection of Data**

Hypothesis  
Validity  
Data collection  
Opportunity sampling  
Random sampling  
Question design

**Representations and their Interpretation**

Venn diagram  
Pie chart  
Stem and leaf  
Choropleth  
Line graph  
Scatter diagram  
Bar chart  
Cumulative frequency diagram  
Box plot  
Dual bar chart  
Appropriate diagram  
Criticise diagram  
Line of best fit  
Secondary data table  
Interpret graph

**Calculation and Interpretation of Measures**

Median from diagram  
Measures of average  
Cumulative frequency  
Lower and Upper Quartile from diagram  
Lower Quartile  
Range  
Percentage  
Rate calculation  
Extrapolation  
Causation

**Probability**

Simple probability  
Venn diagram  
Estimate population characteristic

---

## **Foundation Tier Aggregated Content June 2022**

### **Selection and Collection of Data**

Hypothesis  
Types of data  
Primary and secondary data  
Data source  
Data collection  
Validity  
Reliability  
Random sample  
Opportunity sampling  
Random sampling  
Collected data  
Processing data  
Question design

### **Representations and their Interpretation**

Pictogram  
Tally chart  
Venn diagram  
Pie chart  
Stem and leaf  
Choropleth  
Population pyramid  
Line graph  
Scatter diagram  
Bar chart  
Percentage composite bar chart  
Cumulative frequency diagram  
Box plot  
Dual bar chart  
Criticise diagram  
Appropriate diagram  
Line of best fit  
Secondary data table  
Interpret graph

### **Calculation and Interpretation of Measures**

Skew  
Median from diagram  
Measures of average  
Cumulative frequency  
Lower and Upper Quartile from diagram  
Lower Quartile  
Range  
Trends  
Percentage  
Moving average  
Birth rate  
Rate calculation

---

Consumer Price Index (CPI)

Index number

Extrapolation

Causation

**Probability**

Simple probability

Risk

Independent events

Two-way table

Venn diagram

Estimate population characteristic

---

**Higher Tier**  
**Paper 1 8382/1H June 2022**

**Selection and Collection of Data**

Hypothesis  
Validity  
Types of data  
Census  
Sampling preparation  
Experimental design  
Extraneous variable

**Representations and their Interpretation**

Stem and leaf  
Population pyramid  
Line graph  
Trends  
Histogram  
Interpret graph  
Interpret table

**Calculation and Interpretation of Measures**

Median  
Estimation of median  
Weighted mean  
Quartiles  
Interquartile range  
Compare statistically  
Proportions  
Consumer Price Index (CPI)  
Index number  
Percentage calculation  
Spearman's Rank Correlation Coefficient  
Product Moment Correlation Coefficient  
Quality assurance measures  
Standardised scores

**Probability**

Expected frequency  
Risk  
Independent events  
Conditional probability  
Tree diagram

---

**Higher Tier**  
**Paper 2 8382/2H June 2022**

**Selection and Collection of Data**

Hypothesis  
Reliability  
Data collection  
Opportunity sampling  
Systematic sample  
Random sampling  
Question design  
Sample size

**Representations and their Interpretation**

Venn diagram  
Dual bar chart  
Line graph  
Time series  
Cumulative frequency step polygon  
Appropriate diagram  
Scatter diagram  
Interpret graph  
Interpolation/Extrapolation  
Trends

**Calculation and Interpretation of Measures**

Skew  
Median  
Measures of spread  
Standard deviation  
Interdecile range  
Moving averages  
Regression line equation  
Spearman's Rank Correlation Coefficient  
Expected profit  
Percentage calculation  
Interpret data  
Peterson capture/recapture

**Probability**

Independent events  
Conditional probability  
Binomial

---

## Higher Tier Aggregated Content June 2022

### **Selection and Collection of Data**

Hypothesis  
Validity  
Reliability  
Types of data  
Census  
Data collection  
Opportunity sampling  
Systematic sample  
Random sampling  
Sampling preparation  
Question design  
Sample size  
Experimental design  
Extraneous variable

### **Representations and their Interpretation**

Stem and leaf  
Venn diagram  
Population pyramid  
Dual bar chart  
Line graph  
Time series  
Cumulative frequency step polygon  
Histogram  
Appropriate diagram  
Scatter diagram  
Interpret graph  
Interpret table  
Interpolation/Extrapolation  
Trends

### **Calculation and Interpretation of Measures**

Skew  
Median  
Estimation of median  
Weighted mean  
Quartiles  
Interquartile range  
Measures of spread  
Standard deviation  
Interdecile range  
Moving averages  
Compare statistically  
Regression line equation  
Proportions  
Consumer Price Index (CPI)  
Index number  
Percentage calculation



---

Expected profit  
Interpret data  
Spearman's Rank Correlation Coefficient  
Product Moment Correlation Coefficient  
Quality assurance measures  
Standardised scores  
Peterson capture/recapture

**Probability**

Expected frequency  
Risk  
Independent events  
Conditional probability  
Tree diagram  
Binomial

END OF ADVANCE INFORMATION