

RSSCSE GCSE Data Handling Survey Head of Mathematics Questionnaire

This is a confidential survey designed to be filled in by school heads of mathematics

Q1 School Post Code (essential)

Q2 Qualifications related to statistics and data handling

Degree in Mathematics excluding modules in statistics

Degree in Mathematics including some modules in statistics

Degree involving a major statistics component

Other Degree/Qualification e.g. BEd or Joint degree (please specify if any statistics content) _____

Q3 Number of years teaching experience

Q4 How would you describe your knowledge of statistics and data handling?

	<i>Excellent</i>	<i>Very good</i>	<i>Good</i>	<i>Some</i>	<i>Little</i>
It is	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q5 What is your experience with teaching statistics and data handling at school?

	<i>Very experienced</i>	<i>Experienced</i>	<i>Adequate</i>	<i>Inexperienced</i>	<i>Very inexperienced</i>
I am	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q6 Have you any need for continuing professional development (CPD) in teaching statistics and data handling?

	<i>Urgently needed</i>	<i>Needed</i>	<i>Not needed</i>	<i>Unsure of the need</i>
CPD is	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q7 What do you believe to be the effect on pupils' general education of the presence of statistics and data handling coursework (A04) within Mathematics GCSE?

	<i>Very beneficial</i>	<i>Beneficial</i>	<i>No effect</i>	<i>Detracts</i>	<i>Seriously detracts</i>
The effect is	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q8 How confident are you at teaching each of the following?

	<i>Fully confident</i>	<i>Confident</i>	<i>Somewhat confident</i>	<i>A little unsure</i>	<i>Totally unsure</i>
Key stage 3 statistics and data handling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Key Stage 4 statistics and data handling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GCSE handling data coursework	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q9 Do you use the handling data cycle (pages 53, 69 in Maths National Curr. doc) in your teaching?

	<i>Always</i>	<i>Often</i>	<i>Sometimes</i>	<i>Seldom</i>	<i>Never</i>
The handling data cycle is used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q10 Do you believe statistics and data handling is part of mathematics?

Yes

No

No View

Q11 What do you think might be the effect on pupils' mathematics knowledge and skills of teaching statistics and data handling through more than one subject (eg mathematics, geography, science)?

Very beneficial *Beneficial* *Neutral* *Dis-advantageous* *Very dis-advantageous*

The effect could be

Q12 What do you think might be the effect on pupils' statistics knowledge and skills of teaching statistics and data handling through more than one subject (eg mathematics, geography, science)?

Very beneficial *Beneficial* *Neutral* *Dis-advantageous* *Very dis-advantageous*

The effect could be

Q13 In which subjects do you think the following content at Key Stage 4 should be taught? Please tick all that apply. "Separate Stats" is an abbreviation of "Statistics as a separate subject".

	<i>Mathematics</i>	<i>Science</i>	<i>Geography</i>	<i>Other subject</i>	<i>Separate Stats</i>
Handling data project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sampling and surveys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data collection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Measures of location	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Measures of variation (univariate and bivariate)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regression and time series	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inference from data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Other subject - please specify</i>					

Q14 If you had to give less time to some material from the Mathematics curriculum at key stage 4, from what area do you think it should be taken?

Ma2 Number and algebra

Ma3 Shape and space measures

Ma4 Handling data

Number and algebra coursework.....

Handling data coursework

Undecided.....

Q15 What do you think might be the effect on pupils' understanding of mathematics if statistics and data handling were *not* taught within mathematics?

Very beneficial *Beneficial* *No effect* *Detrimental* *Very Detrimental*

The effect could be

Q16 Should statistics and data handling be taught as a compulsory subject in its own right from key stage 3 onwards?

Yes

No

Do not know

Q17 Which of the following possible methods could best be used to assess the coursework component of statistics and data handling

The present method

A one-week course at a field centre during which pupils complete and submit coursework

Six "revision" statistics and data handling lessons in school followed by an on-line exam

Project work set by exam board on-line and completed by pupils in school during a one week period

Other -- please specify
