

## RSSCSE GCSE Data Handling Survey Head of Science Questionnaire

This is a confidential survey designed to be answered by school heads of science

**Q1 School Post Code (essential)**

\_\_\_\_\_

**Q2 Qualifications related to statistics and data handling**

*Degree in a Pure Science excluding modules in statistics* .....

*Degree in a Pure Science 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 How is science taught in your school?**

*Science as a single subject* .....

*Science as a double subject* .....

*In single components e.g. biology, chemistry, physics* .....

**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>
Statistics and data handling in science at Key Stage 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Statistics and data handling in science at Key Stage 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q9 How often do you use the handling data cycle (see Head of Mathematics) 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 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 (e.g. mathematics, geography, science)?**

	<i>Very beneficial</i>	<i>Beneficial</i>	<i>Neutral</i>	<i>Dis-advantageous</i>	<i>Very dis-advantageous</i>
The effect could be	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q11** 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".

	Mathematics	Science	Geography	Other subject	Separate Stats
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"/>

Other subject - please specify \_\_\_\_\_

**Q12** In your view what would be the effect on the teaching of science if statistics and data handling were not taught within science?

	Very beneficial	Beneficial	No effect	Detrimental	Very detrimental
It would be	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q13** What would be the effect on presenting a coherent view of science if statistics and data handling were not taught within science?

	Very beneficial	Beneficial	No effect	Detrimental	Very detrimental
It would be	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q14** 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 .....

**Q15** Which of the following possible methods could best be used to assess the coursework component of statistics and data handling?

- The present system .....
- 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 \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_