Analyzing Data in Science

Start of Block: Informed Consent

consent\_a **Invitation to participate in a study on analyzing data in science** Thank you for considering participation in this survey on analyzing and interpreting data in the science classroom. We sincerely appreciate you considering sharing your expertise and insights. You are being contacted as someone who has used Data Nuggets or DataClassroom.While you are not presently among the first 100 people to complete this survey (and so will not receive an Amazon.com gift card), we would love to hear from you and will contact you first with any future study opportunities. The survey should take no more than 15 minutes to complete. More information about the survey (and study) is on the next page.

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Q101 **CONSENT FOR RESEARCH PARTICIPATION**  
    **Why am I being asked to be in this research study?**  
   I am asking you to be in this research study because you are a K-12 science teacher.  
   **What is this research study about?**   The purpose of the research study is to understand how science teachers involve students in the science practice of analyzing and interpreting data.   **Who is conducting this research study?**   This project is conducted by Assistant Professor of STEM Education, Joshua Rosenberg, Ph.D., at the University of Tennessee, Knoxville.   **How long will I be in the research study?**   Your total time of participation will involve completing this survey, which takes up to 15 minutes.   **What will happen if I say “Yes, I want to be in this research study”?**   If you agree to be in this study, I will ask you to complete this survey.   **What happens if I say “No, I do not want to be in this research study”?**   Being in this study is up to you. You can say no now or leave the study later.   **What happens if I say “Yes” but change my mind later?**   Even if you decide to be in the study now, you can change your mind and stop at any time.   If you decide to stop before the study is completed, please contact Joshua Rosenberg (contact information below), and I will not analyze any data I collected from your responses.   **Are there any possible risks to me?**   It is possible that someone could find out you are in this study or see your study information, but I believe this risk is small because of the procedures I use to protect your information. These procedures are described later in this form.   **Are there any benefits to being in this research study?**   I do not expect you to benefit directly from being in this study. Your participation may help us to learn more about analyzing and interpreting data in science education, and how to support teachers and students to creatively and ambitiously work with data in the science classroom.   **Who can see or use the information collected for this research study?**   I will make every effort to prevent anyone who is not on the research team from knowing that you gave us information or what information came from you. Although it is unlikely, there are times when others may need to see the information I collect about you. These include: People at the University of Tennessee, Knoxville who oversee research to make sure it is conducted properly. If a law or court requires us to share the information, I would have to follow that law or final court ruling. Business offices at the University of Tennessee, Knoxville may be given your name and email address, and, if you are a student employee, additional information, including your address and social security, to issue your payment and report tax information.   **What will happen to my information after this study is over?**   I will keep your information to use for future research, but in anonymized form. I may share your research data with other researchers without asking for your consent again, but it will not contain information that could directly identify you.   **Will I be paid for being in this research study?**   You will be compensated for your time with a $10 Amazon.com gift card to participate in this study (up to the first 100 individuals to respond). If you are not one of the first 100 people to respond to the survey, then you will not receive any compensation. If you are not one of the first 100 people to respond to the survey, then you will not receive any compensation. You must complete three-quarters of the questions on the survey (or more) to be eligible for compensation. You will be sent the gift card after the conclusion of the study, although it may take some time to receive the gift card because it will be processed through the University of Tennessee, Knoxville.   **Will it cost me anything to be in this research study?**   It will not cost you anything to be in this study.   **Who can answer my questions about this research study?**   If you have questions or concerns about this study, or have experienced a research-related problem or injury, please contact the principal investigator: *Joshua M. Rosenberg, jmrosenberg@utk.edu.* For questions or concerns about your rights or to speak with someone other than the research team about the study, please contact: *Institutional Review Board, utkirb@utk.edu*.   **Statement of Consent:**   **I have read this form and the research study has been explained to me. I have been given the chance to ask questions and my questions have been answered. If I have more questions, I have been told who to contact. By clicking the “Next” button below, I am agreeing to be in this study.**

End of Block: Informed Consent

Start of Block: current-data-use

Q78 What software, tools, or resources related to analyzing and interpreting data have students used while taking your class(es)?   
  
  
Please select all that apply.

* Common Online Data Analysis Platform (CODAP) (21)
* Graphing Calculator (23)
* Calculator (not for graphing) (22)
* TUVA (24)
* DataClass room (25)
* R (26)
* Microsoft Excel (27)
* Google Sheets (28)
* Desmos (30)
* Data Nuggets (31)
* Infogram (or similar online tool for creating an infographic) (32)
* Other (please describe) (29) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Display This Question:

If If What software, tools, or resources related to analyzing and interpreting data have students&nbsp;used while taking your class(es)?&nbsp;Please select all that apply. q://QID70/SelectedChoicesCount Is Greater Than or Equal to 1

Carry Forward Selected Choices from "What software, tools, or resources related to analyzing and interpreting data have students used while taking your class(es)? Please select all that apply."

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Q92 You indicated that your students use the following software, tools, or resources. Approximately how often do students use each of the following?

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|  | Daily (1) | Weekly (2) | Monthly (3) | Rarely (4) |
| Common Online Data Analysis Platform (CODAP) (x21) |  |  |  |  |
| Graphing Calculator (x23) |  |  |  |  |
| Calculator (not for graphing) (x22) |  |  |  |  |
| TUVA (x24) |  |  |  |  |
| DataClassroom (x25) |  |  |  |  |
| R (x26) |  |  |  |  |
| Microsoft Excel (x27) |  |  |  |  |
| Google Sheets (x28) |  |  |  |  |
| Desmos (x30) |  |  |  |  |
| Data Nuggets (x31) |  |  |  |  |
| Infogram (or similar online tool for creating an infographic) (x32) |  |  |  |  |
| Other (please describe) (x29) |  |  |  |  |

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Q80 Considering a typical activity in which your students are analyzing and interpreting data, what do your students usually do?

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Q82   
What sources of data do you use with your students (e.g. student-collected data, datasets found online or through other sources, etc.)?  
  Please provide as much detail as you can, including:  where obtain these sources the size of the data the types of variables included in the data

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Q101 Please indicate your agreement with the following three statements.

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|  | Strongly disagree (18) | Somewhat disagree (19) | Neither agree nor disagree (20) | Somewhat agree (21) | Strongly agree (22) |
| I am satisfied with the current data analysis tools that I use in my class. (1) |  |  |  |  |  |
| I use quantitative activities with my students regularly. (2) |  |  |  |  |  |
| I am interested in adding more quantitative activities into my class(es) (3) |  |  |  |  |  |

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Q106 In which of the following activities do you involve your students?   
  
  
**First-hand data** is collected by students directly.  
**Second-data data**is obtained by students (or you as the teacher) from outside sources .   
  
  
Please check all that apply.

* Analyzing first-hand data using pen-and-paper (4)
* Analyzing second-hand data using pen-and-paper (8)
* Analyzing first-hand data using digital tools (9)
* Analyzing second-hand data using digital tools (10)

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Q98 How often do you have students do each of the following  in your class?

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|  | Never (4) | Rarely (a few times a year) (5) | Sometimes (once or twice a month) (6) | Often (once or twice a week) (3) | All or almost all science lessons (7) |
| Determine which data would need to be collected in order to answer a scientific question (regardless of who generated the question) (1) |  |  |  |  |  |
| Determine which variables from a provided dataset are necessary to answer a scientific question (13) |  |  |  |  |  |
| Organize and/or represent data using tables, charts, or graphs in order to facilitate analysis (4) |  |  |  |  |  |
| Identify potential sources of variability (e.g., measurement error, natural variation) in the data (5) |  |  |  |  |  |
| Analyze data using grade-appropriate methods in order to identify patterns, trends, or relationships (6) |  |  |  |  |  |
| Consider how missing data or measurement error can affect data interpretation (7) |  |  |  |  |  |
| Select and use grade-appropriate mathematical and/or statistical techniques to analyze data (for example: determining the best measure of central tendency, examining variation in data, or developing a line of best fit) (9) |  |  |  |  |  |
| Use mathematical and/or computational models to generate data to support a scientific claim (10) |  |  |  |  |  |
| Use data and reasoning to defend, verbally or in writing, a claim or refute alternative scientific claims about a real-world phenomenon (regardless of who made the claims) (11) |  |  |  |  |  |

End of Block: current-data-use

Start of Block: gaps-in-resources

Q87 What new feature(s) - if any - in existing tools for analyzing data would you like to see but do not yet exist?

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Q90 In what areas do you think your students need additional support and/or help to effectively analyze and interpret data?   
Please select all that apply.

* Preparing a dataset for analysis (1)
* Choosing variables (11)
* Creating graphs (12)
* Understanding what a data point represents in real-life (13)
* Interpreting data from visualizations (14)
* Identifying trends within datasets (15)
* Using data to support claim (16)
* Choosing a statistical test (17)
* Interpreting the output from a statistical test (22)
* Data ethics (18)
* Data documentation (19)
* Evaluating data quality and trustworthiness (20)
* Other (please describe) (21) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q91 Considering your current science courses, for which topics would you like to see new resources developed?

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Q97 Which of the following might prevent you from using a digital tool?   
  
  
Please check all that apply.

* Cost (4)
* Availability of computers (tablets, laptops, etc.) (7)
* Student information security (8)
* Time to develop new lessons that I previously did using pencil-and-paper (9)
* Difficulty of learning a new tool (10)
* Student discomfort with computers (11)
* My own discomfort with computers (12)
* Other (please describe) (13) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

End of Block: gaps-in-resources

Start of Block: pd

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Q99 Would you be interested in professional development opportunities related to analyzing and interpreting data?

* Yes (1)
* No (2)
* I'm not sure (3)

Display This Question:

If Would you be interested in professional development opportunities related to analyzing and interp... = Yes

Or Would you be interested in professional development opportunities related to analyzing and interp... = I'm not sure

Q97 On what topics or aspects of analyzing and interpreting data might you be interested in attending professional development?

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End of Block: pd

Start of Block: demographics

Q84 In what type of school do you teach?

* Public (4)
* Private (5)
* Other (please describe) (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

professional\_role What subjects do you teach? Please select all that apply.

* Biology (1)
* Earth science (or earth and space science) (2)
* Chemistry (3)
* Physics (4)
* General science (5)
* Other (please describe) (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q108 Do you teach any Advanced Placement (AP) or International Baccalaureate (IB) courses?

* Yes (1)
* No (2)

Display This Question:

If Do you teach any Advanced Placement (AP) or International Baccalaureate (IB) courses? = Yes

Q109 Which Advanced Placement (AP) or International Baccalaureate (IB) courses do you teach?

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Q98 What prior experience or preparation (to the best of your knowledge) do you have related to analyzing and interpreting data? Please select all that apply.

* None (4)
* High school course in math (7)
* High school course in science (8)
* Undergraduate course in math (9)
* Undergraduate course in science (10)
* Graduate level coursework (11)
* Taught myself (12)
* Research experience (13)
* Research Experience for Teachers (NSF RET) (14)
* Teacher professional development (15)

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state\_work In what state do you work?

▼ Alabama (1) ... I do not reside in the United States (53)

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Q85 What is the name of your school district?  
  
This question is optional, and if you do answer it, we will not identify any specific districts or schools in any products (e.g., presentations, white papers, publications) that come from this work; this will just help us to know more about where you work.

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Q86 What is the name of your school?  
  
Like the previous question, this question is optional, and if you do answer it, we will not identify any specific districts or schools in any products (e.g., presentations, white papers, publications) that come from this work; this will just help us to know more about where you work.

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age\_range What is your age?

* 18-24 (1)
* 25-34 (2)
* 35-44 (3)
* 45-54 (4)
* 55 and older (5)
* Prefer not to say (6)

highest\_schooling What is the highest level of schooling you have completed or the highest degree you have received?

* High school diploma (7)
* Some college but no degree (1)
* Associate's degree in college (2- year) (2)
* Bachelor’s degree in college (4-year) (3)
* Master’s degree (4)
* Doctoral degree (5)
* Professional degree (JD, MD) (6)

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grade\_level\_taught If you interact with students in your professional role, in which grade-level(s) are the students?  
Please select all that apply.

* K (1)
* 1 (2)
* 2 (3)
* 3 (4)
* 4 (5)
* 5 (6)
* 6 (7)
* 7 (8)
* 8 (9)
* 9 (10)
* 10 (11)
* 11 (12)
* 12 (13)
* Prefer not to answer (14)
* I do not interact with students directly in my professional role (15)
* Other (please describe): (16) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

years\_worked By the end of the current school year, for how many years will you have worked in education?

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underrepresented Do you identify as a member of an underrepresented racial or ethnic group? 

* Yes (1)
* No (2)

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Display This Question:

If Do you identify as a member of an underrepresented racial or ethnic group?  = Yes

with\_which\_groups With which underrepresented group(s) do you identify?

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gender With which gender do you identify?

* Male (1)
* Female (2)
* Prefer not to say (3)
* Other (please describe) (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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email\_b What is your email address?   
  
  
Providing an email is necessary only to receive compensation for participating in this study. Note that we will anonymize the dataset by removing your email address before analyzing the data from this survey.

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Q111 What other comments or feedback do you have?

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End of Block: demographics