

Please answer the following questions to the best of your ability. Your responses will help us to understand how you used sInvestigator in the assignments for this course.

Will my responses be graded?

No. Your responses will be used by our research team to understand how you think critically about science.

Will my results be confidential?

The professors and researchers on our team will compile your responses for our project; no one outside of our team will have access to your responses.

If you encounter problems or have questions while you are completing this post-assessment, please raise your hand and a member of the research team will assist you.

Section 1: sInvestigator Functionality

* 1. Please enter your first name and last name. We will use this information for matching with earlier surveys; your name will be removed prior to the analysis of the responses.

* 2. sInvestigator helps students to develop critical thinking skills in approaching scientific problems.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

Explain your response.

* 3. sInvestigator helps students as they approach a scientific problem as ceaseless discovery of evidence, hypotheses, and arguments.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

Explain your response.

* 4. sInvestigator helps students to critique and debate evidence-based scientific argumentation in real-life scientific investigations.

- Strongly agree
- Agree
- Somewhat agree
- Somewhat disagree
- Disagree
- Strongly disagree

Explain your response.

* 5. We are researching whether sInvestigator contributed to your development of computational thinking.

Computational thinking (CT) is *“the thought processes involved in formulating problems and their solutions so that the solutions are represented in a form that can be effectively carried out by an information processing agent.”*

How did using sInvestigator help you formulate problems and their solutions?

Section 2: sInvestigator Usability

* 6. I think that I would like to use sInvestigator frequently.

- Strongly agree
- Agree
- Somewhat agree
- Somewhat disagree
- Disagree
- Strongly disagree

* 7. I found sInvestigator unnecessarily complex.

- Strongly agree
- Agree
- Somewhat agree
- Somewhat disagree
- Disagree
- Strongly disagree

* 8. I thought sInvestigator was easy to use.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

* 9. I think that I would need the support of a technical person to be able to use sInvestigator.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

* 10. I found the various functions of sInvestigator were well integrated.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

* 11. I thought there was too much inconsistency in this sInvestigator.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

* 12. I would imagine that most people would learn to use this sInvestigator very quickly.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

* 13. I found sInvestigator very cumbersome to use.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

* 14. I felt very confident using sInvestigator.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

* 15. I needed to learn a lot of things before I could get going with sInvestigator.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

* 16. The sInvestigator research team has enough money to pay the developers to make one major system upgrade. What change to the system should they make?

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Section 2: Tenets of Nature of Science

* 17. Which of the tenets of Nature of Science listed below did you think about as you used sInvestigator? (Check all that apply).

- Scientific ideas are durable, yet are subject to change.
- Science avoids bias.
- The natural world is understandable.
- Science is a blend of logic and imagination.
- Science is a social activity.
- Science demands evidence.

* 18. Choose ONE of the tenets of Nature of Science that you checked above and explain your response in 1 or 2 sentences.

19. Would you be willing to talk with us again about your experiences with sInvestigator this semester? (We would offer you a gift card for sharing your valuable time!)

If so, please enter the email address you would like us to use to contact you.



Thank you for completing this post-assessment and supporting our research with sInvestigator.

If you have further questions about the study, please email Dr. Nancy Holincheck in the Graduate School of Education at GMU, nholinch@gmu.edu