



STEM Interest Questionnaire

Name: _____ School _____

Teacher or Leader Name: _____

Age: _____ Gender (circle one): Male Female

Ethnicity (circle one):

African American American Indian Asian or Pacific Islander Hispanic White (non Hispanic) Other

We are interested in learning about your attitudes towards science, technology, engineering, and mathematics (STEM). We particularly want to get your reaction to learning about certain topics before and after you have been involved in some engaging STEM lessons that have been taught by your teacher.

Read the statements below and circle your opinion.

Statement	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
1. It is important for me to learn how to conduct a scientific investigation.	5	4	3	2	1
2. It is important for me to learn about how science is used in the world.	5	4	3	2	1
3. It is important for me to learn how to use appropriate tools and techniques to gather, analyze and interpret data.	5	4	3	2	1
4. It is important for me to learn about how mathematics is used in the world.	5	4	3	2	1
5. It is important for me to learn how to use mathematical formulas to help solve practical problems.	5	4	3	2	1
6. It is important for me to learn how to make accurate measurements to help solve mathematical problems.	5	4	3	2	1
7. It is important for me to be able to record measurements and calculations into tables and charts.	5	4	3	2	1
8. It is important for me to learn how to collect and interpret data to verify a prediction or hypothesis.	5	4	3	2	1
9. It is important for me to understand basic engineering concepts (e.g. design tradeoffs).	5	4	3	2	1
10. It is important for me to learn how a business uses technology.	5	4	3	2	1
11. It is important for me to learn about how a business uses engineering.	5	4	3	2	1
12. I like learning about new technologies.	5	4	3	2	1
13. I like using the scientific method to solve problems.	5	4	3	2	1
14. I like using mathematical formulas and calculations to solve problems.	5	4	3	2	1
15. I think careers in science, technology, engineering or math are interesting.	5	4	3	2	1

Questionnaire Modified from the Nebraska 4-H Robotics and GPS/GIS Project

Statement	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
16. I use a step by step process to solve problems.	5	4	3	2	1
17. I make a plan before I start to solve a problem.	5	4	3	2	1
18. I would like to learn more about careers that involve science, technology, engineering, and mathematics.	5	4	3	2	1
19. I try new methods to solve a problem when one does not work.	5	4	3	2	1
20. I carefully analyze a problem before I begin to develop a solution.	5	4	3	2	1
21. In order to solve a complex problem, I break it down into smaller steps.	5	4	3	2	1
22. I find it interesting to learn about robots or robotics technology.	5	4	3	2	1
23. I believe that I could fix a software problem, if I needed to do so.	5	4	3	2	1
24. I believe that I could work with a robot in a science investigation.	5	4	3	2	1
25. I would like to work with robotics to learn mathematics or science.	5	4	3	2	1
26. I am confident that I could learn how to make a robot do something that I had not done before today.	5	4	3	2	1
27. I am confident that I could make a chart of data if needed.	5	4	3	2	1
28. I am confident that I could learn how to use technologies to help me to get to places that I have never been before.	5	4	3	2	1
29. I like listening to others when trying to decide how to approach a task or problem.	5	4	3	2	1
30. I like being part of a team that is trying to solve a problem.	5	4	3	2	1
31. When working in teams, I ask my teammates for help when I run into a problem or don't understand something.	5	4	3	2	1
32. I like to work with others to complete projects.	5	4	3	2	1
33. I like learning about how technology is used in the real world.	5	4	3	2	1