

## Parent Survey

### Parents STEM Interest Survey

This questionnaire is part of the evaluation project for the NASA and US Department of Education 21st Century Community Learning Collaboration Phase 4. The goal of this survey is to obtain your views on parental engagement involving Science, Technology, Engineering, and Mathematics (STEM) activities and education. All information obtained is confidential. This survey is voluntary. You do not have to take the survey or answer any questions you do not want to. However, your input will be invaluable in assisting us in making sure that the content is relevant and useful to students participating in this and future out-of-school STEM educational programs. Also, your responses are confidential, meaning that your name will never be tied to your responses and no one will know how you responded to these questions.

Thank you very much for your help!

If you wish to participate in this survey, please continue.

The information that you provide us may be used to enhance parental engagement in their children's mathematics and science education to support students.[1] There are no right or wrong answers to the questions. We would like your honest opinion on these items.

[1] This survey is a modification of items taken from the "Parental engagement in children's STEM education. Part II: Parental attitudes and motivation" and "The family-friendly Science: Increasing Family Engagement in STEM education" papers.

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**Paperwork Reduction Act Statement:** This information collection meets the requirements of 44 U.S.C. §3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 2700-0159 and expires 06/03/2021. We estimate that it will take 15 minutes to read the instructions and answer the questions. Send only comments relating to this time estimate to: [richard.l.gilmore@nasa.gov](mailto:richard.l.gilmore@nasa.gov).

\* 1. What best describes your relationship with the child/children you are registering for the NASA & US Department of Education 21st Century Community Learning Collaboration Phase 4 program?

- Parent or legal guardian
- Grandparent
- Other family member( e.g. aunt, uncle,( brother/sister)
- Family friend
- Other (please describe)

\* 2. Do you wish you had more at-home resources (websites, games, activities, etc.) to engage in STEM learning with your child? If yes, please explain.

\* 3. How important do you think STEM subjects are in your child's education? This scale is 1-5, with "1" indicating the least importance, and "5" indicating the most.

- Least important - 1
- Somewhat important -
- 2 Important - 3
- Very important - 4
- Highly important - 5

\* 4. How often do you and your family attend any other science resources in the community such as a science center? This scale is 1-5, with "1" indicating the least frequency and "5" indicating the most.

- Never - 1
- Once a year - 2
- Once every six months - 3
- Once a month -
- 4 Once a week - 5

\* 5. Do you or someone in your immediate family work in a STEM-related field? If yes, please specify.

\* 6. How would you rate your child's interest in the subject of science? This scale is 1-5, with "1" indicating the least interest and "5" indicating the most.

- Least interested - 1
- Somewhat interested - 2
- Interested - 3
- Very interested - 4
- Highly interested -
- Unsure

\* 7. How would you rate your child's interest in STEM-oriented subjects? This scale is 1-5, with "1" indicating the least interest and "5" indicating the most.

- Least interested - 1
- Somewhat interested - 2
- Interested - 3
- Very Interested - 4
- Highly Interested -
- 5  Unsure

\* 8. Are you satisfied with your child(ren)'s school offering of out-of-school STEM programs?

- Very satisfied
- Satisfied
- Somewhat satisfied
- Dissatisfied
- Very dissatisfied

\* 9. Do you encourage your child(ren) to check out books from the library on STEM topics?

- 
- Yes
- No

\* 10. Has your child(ren) participated in science or math competitions at school or the community?

- Never participated
- 1-3 times in past year
- More than 4 times in the past year
- No competitions offered in the school or community

\* 11. How often do you talk with your child(ren) about Science, Technology, Engineering or Math?

- Everyday
- Every other day
- Twice a week
- Less than once a week
- Never

\* 12. What is your age group?  19 - 24

\* 7. How would you rate your child's interest in STEM-oriented subjects? This scale is 1-5, with "1" indicating the

25 - 34

35 - 44

45 - 54

55 - 64

65 - 74

75+

\* 13. How strong is your desire to see your child someday enter a STEM-related field? This scale is 1-5, with "1" indicating the least desire, and "5" indicating the most.

- |   |  |
|---|--|
| <input type="radio"/> Least desire - 1    | <input type="radio"/> Very much desire - 4 |
| <input type="radio"/> Somewhat desire - 2 | <input type="radio"/> Highly desire - 5    |
| <input type="radio"/> Desire - 3          | <input type="radio"/> Unsure               |

\* 14. Why would you encourage your child to study STEM? (Select all that apply.)

- |  |  |
|--|--|
| <input type="radio"/> STEM topics are fun.   | <input type="radio"/> STEM will open many well-paid job opportunities for adults.  |
| <input type="radio"/> STEM provides an interesting way to learn about the natural world.                         | <input type="radio"/> STEM subjects will help students develop critical thinking skills.   |
| <input type="radio"/> STEM has many everyday life applications.  | <input type="radio"/> STEM courses are required courses for university admission.  |
| <input type="radio"/> STEM subjects are at the core of modern innovations (cell phones, video games, computers). | <input type="radio"/> Your own profession/occupation is related to STEM and you would like your child to follow in your footsteps. |
| <input type="radio"/> STEM will open many exciting job opportunities for adults                                  | <input type="radio"/> Other.   |

\* 15. What is the highest level of science that you studied beyond elementary school?

- I did not study science beyond elementary school (or equivalent)
- Secondary/high school science
- Undergraduate level (college or university)
- Graduate level (Master's or PhD)

\* 16. What is the highest level of math you studied beyond elementary school?

- I did not study math beyond elementary school (or equivalent)
- Secondary/high school math
- Undergraduate level (college or university)
- Graduate level (Master's or PhD)

\* 17. How do you feel about helping your child in their STEM education? Do you feel satisfied in your ability to help them with homework, talk to them about science and math concepts, etc.? Keep in mind that this survey is anonymous, and any response is welcomed. This scale is 1-5, with "1" indicating the least amount of satisfaction, and "5" indicating the most.

- |  |  |
|--|--|
| <input type="radio"/> Least satisfied - 1  | <input type="radio"/> Very satisfied - 4 |
| <input type="radio"/> Somewhat satisfied - | <input type="radio"/> Highly satisfied - |
| <input type="radio"/> 2 Satisfied - 3      | 5  |
|  | <input type="radio"/> Unsure             |

\* 18. How often do you do any STEM-related activities at home? These could include science kits, building with blocks/Legos, or STEM-related puzzles and board games. This scale is 1-5, with "1" indicating the least frequency, and "5" indicating the most.

- Never - 1
- Once a month -
- 2 Once a week -
- 3
- Once a day - 4
- More than once a day -
- 5 Unsure

\* 19. How would you rate your child's STEM education? This is scale is 1-5, with "1" indicating the poorest, and "5" indicating the best.

- Poor - 1
- Somewhat good -
- 2 Good - 3
- Very good -
- 4 Best - 5
- Unsure

\* 20. What are effective ways for parents/families to encourage their children to study STEM topics? (Select all that apply.)

- Taking children to science museums, aquariums or other STEM-related events.
- Asking children about what they have been learning in their math or science classes at school.
- Helping children with their math and science homework assignments.
- Enrolling children in after-school STEM programs.
- Pointing out the role STEM plays in dealing with important societal and political issues (climate change, etc.).
- Encouraging children to watch STEM-related shows, such as Cosmos, the Animal Planet, etc.
- Accompanying children to STEM-related events such as this one.

Other (please specify)

## Parent Survey

\* 21. How important is parental involvement in STEM education of their children?

- Very important
- Important
- Somewhat important
- It is not very important
- It is not important at all

\* 22. ---End of Test Survey---

Please provide feedback on your experience with this survey by answering the following questions.

Please indicate the level to which you agree or disagree with each statement.

	Strongly Disagree	Disagree	Agree	Strongly Agree
The survey instructions were clear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The questions were easy to understand.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 23. Do you have additional comments or feedback on the instructions, questions, or survey navigation?

\* 24. In what state is your child's program located?