### Appendix E. Instruments – Student Survey (Grades 6-12 and 4-5)

**Student Survey, Grades 6-12**

**National Aeronautics and Space Administration**

[**www.nasa.gov**](http://www.nasa.gov)

Welcome! Your teacher is using materials developed by NASA as part of a program called NASA Explorer Schools (NES). Students who participate in this program are being asked to complete this survey. There are no “right” or “wrong” answers to any of the questions. NASA wants to learn what students think of these activities and about science. We estimate that it will take about 15 minutes to complete the questions. Thank you very much for your help!

We would like you to participate in a study, but you do not have to participate. If you decide not to participate, no one will be upset with you. No one at NASA or your school will be upset. You can decide to participate and change your mind later. You can skip any questions you do not want to answer.

We will keep your answers private. No one, including your friends, parents, or teachers will see your answers. Only the researchers doing the study will see your answers.

If you have questions about the study, please contact the study director, Alina Martinez of Abt Associates Inc. at 855-646-3308 (toll-free) or email at NASAExplorerSchoolsStudy@abtassoc.com. For questions about your rights as a participant in this study, contact Teresa Doksum at the Abt Associates Inc. Institutional Review Board at 877-520-6835 (toll-free).

**Consent**

If you want to participate in this special study, write your name below, and turn the page to start answering questions. If you do not want to participate, do not write your name below and return the survey.

 **WRITE YOUR NAME**

**The questions on the next pages ask about your thoughts about science, technology, engineering, and math. Please respond to the best of your ability.**

**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 control number. We estimate that it will take about 15 minutes to read the instructions, gather the facts, and answer the questions. **You can find additional information on this program at http://www.nasa.gov/offices/education/programs/national/nes2/home/index.html** You may send comments on our time estimate above to: NASAExplorerSchoolsStudy@abtassoc.com. **Please send only comments relating to our time estimate to this address, not the completed form.**

School ID XXX

***1. Please indicate how much you agree with each statement below.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Strongly Disagree** | **Disagree** | **Not sure** | **Agree** | **Strongly Agree** |
|  | **1** | **2** | **3** | **4** | **5** |
| 1. Science is fun.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Everyone should learn about engineering.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I do not do very well in math.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I would like to belong to a science, engineering, or technology club.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Science is boring
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I think engineers are cool people.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I really like math.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I enjoy my science class.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I get bored when watching science, engineering, or technology programs at home.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I do not do very well in science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I enjoy my math class.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I often think, “I cannot do this,” when a science assignment seems hard.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I really like science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Engineering is fun.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I dislike reading books about science, engineering or technology during school vacation.
 | ❑ | ❑ | ❑ | ❑ | ❑ |

***2. Please indicate how much you agree with each statement below.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Strongly Disagree** | **Disagree** | **Not sure** | **Agree** | **Strongly Agree** |
|  | **1** | **2** | **3** | **4** | **5** |
| 1. Science is easy for me.
 |  |  |  |  |  |
| 1. Math is boring
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I think scientists are cool people.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I really like engineering.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. No matter how hard I try, I can’t understand math.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Everybody should learn about math.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I would like a summer job related to science, engineering, or technology.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. No matter how hard I try, I can’t understand science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I enjoy learning about engineering.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I think mathematicians are cool people.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Everybody should learn about science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I often think, “I cannot do this,” when a math assignment seems hard.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Math is easy for me.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I like looking at websites about science, engineering, or technology.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I usually understand what we are talking about in science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |

***3. How much would you like to do each of the jobs below in the future?***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Really not like | Not like | Unsure | Like | Really like |
|  | **1** | **2** | **3** | **4** | **5** |
|  |  |  |  |  |  |
| 1. Engineer
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Astronaut
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Astronomer
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Police Officer
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Atmospheric Scientist
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Chemist
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Computer Systems Analyst
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Engineering Technician
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Environmental Scientist
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Business person
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Mathematician
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Meteorologist
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Physicist
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Lawyer
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Pilot
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Planetary Geologist
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Technician
 | ❑ | ❑ | ❑ | ❑ | ❑ |

***4. Which of the following NASA-related activities are you interested in? Check all that apply.***

|  |  |
| --- | --- |
| 1. Doing additional NASA activities in my classroom
 | ❑ |
| 1. Having an internship at a NASA Center
 | ❑ |
| 1. Talking with a NASA scientist
 | ❑ |
| 1. Participating in a launch event
 | ❑ |
| 1. Checking out video downlinks from the International Space Station
 | ❑ |
| 1. Visiting a museum, science center, or planetarium
 | ❑ |
| 1. Participating in a competition hosted by NASA
 | ❑ |
| 1. Attending a NASA career fair
 | ❑ |
| 1. Attending an after-school club or activity hosted by NASA
 | ❑ |
| 1. Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | ❑ |

***5. What is your gender? Please check one only.***

❑ Male

❑ Female

***6. What is your current grade in school?***

|  |  |
| --- | --- |
| ❑ 1st | ❑ 7th |
| ❑ 2nd | ❑ 8th |
| ❑ 3rd | ❑ 9th |
| ❑ 4th | ❑ 10th |
| ❑ 5th | ❑ 11th |
| ❑ 6th | ❑ 12th |

***6. What is the name of the class where you are taking this survey?***

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***8. Are you involved in NASA activities outside your classroom?***

❑ Yes

❑ No

***If yes, what activities?*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***THANK YOU FOR TAKING THIS SURVEY!***

**Student Survey, Grades 4-5**

**National Aeronautics and Space Administration**

[**www.nasa.gov**](http://www.nasa.gov)

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 **WRITE YOUR NAME**

**The questions on the next pages ask about your thoughts about science, technology, engineering, and math. Please respond to the best of your ability.**

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School ID XXX

***1. Please indicate how much you agree with each statement below.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Strongly Disagree** | **Disagree** | **Not sure** | **Agree** | **Strongly Agree** |
|  | **1** | **2** | **3** | **4** | **5** |
| 1. Science is fun.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Everyone should learn about engineering.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I do not do very well in math.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I would like to belong to a science, engineering, or technology club.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Science is boring
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I think engineers are cool people.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I really like math.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I enjoy my science class.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I get bored when watching science, engineering, or technology programs at home.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I do not do very well in science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I enjoy my math class.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I often think, “I cannot do this,” when a science assignment seems hard.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I really like science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Engineering is fun.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I dislike reading books about science, engineering or technology during school vacation.
 | ❑ | ❑ | ❑ | ❑ | ❑ |

***2. Please indicate how much you agree with each statement below.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Strongly Disagree** | **Disagree** | **Not sure** | **Agree** | **Strongly Agree** |
|  | **1** | **2** | **3** | **4** | **5** |
| 1. Science is easy for me.
 |  |  |  |  |  |
| 1. Math is boring
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I think scientists are cool people.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I really like engineering.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. No matter how hard I try, I can’t understand math.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Everybody should learn about math.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I would like a summer job related to science, engineering, or technology.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. No matter how hard I try, I can’t understand science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I enjoy learning about engineering.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I think mathematicians are cool people.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Everybody should learn about science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I often think, “I cannot do this,” when a math assignment seems hard.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. Math is easy for me.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I like looking at websites about science, engineering, or technology.
 | ❑ | ❑ | ❑ | ❑ | ❑ |
| 1. I usually understand what we are talking about in science.
 | ❑ | ❑ | ❑ | ❑ | ❑ |

***3. Which of the following NASA-related activities are you interested in? Check all that apply.***

|  |  |
| --- | --- |
| 1. Doing additional NASA activities in my classroom
 | ❑ |
| 1. Talking with a NASA scientist
 | ❑ |
| 1. Participating in a launch event
 | ❑ |
| 1. Checking out video downlinks from the International Space Station
 | ❑ |
| 1. Visiting a museum, science center, or planetarium
 | ❑ |
| 1. Participating in a competition hosted by NASA
 | ❑ |
| 1. Attending a NASA career fair
 | ❑ |
| 1. Attending an after-school club or activity hosted by NASA
 | ❑ |
| 1. Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | ❑ |

***4. What is your gender? Please check one only.***

❑ Male

❑ Female

***5. What is your current grade in school?***

|  |  |
| --- | --- |
| ❑ 1st | ❑ 7th |
| ❑ 2nd | ❑ 8th |
| ❑ 3rd | ❑ 9th |
| ❑ 4th | ❑ 10th |
| ❑ 5th | ❑ 11th |
| ❑ 6th | ❑ 12th |

***6. What is the name of the class where you are taking this survey?***

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***7. Are you involved in NASA activities outside your classroom?***

❑ Yes

❑ No

***If yes, what activities?*** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***THANK YOU FOR TAKING THIS SURVEY!***