



Engineering Design Challenge Activity Student Feedback Form (Pre-survey)

Introduction: As a participant in this Engineering Design Challenge activity, you've been selected to take part in a brief questionnaire to test a future survey for clarity and comprehensibility of the questions therein. We also want to validate the estimate for how long it takes to complete this survey. **Therefore, we ask that you please note the time that you start this survey because we will ask at the end how long it took to complete this survey.**

Thank you for your cooperation! If you wish to participate in this test survey, please continue to the next page.

Privacy Notice: This is an official NASA application hosted on SurveyMonkey.com. This is not a government application, the application is controlled and operated by a third party. NASA's Web Privacy Policy does not apply to this application. NASA will not maintain, use, or share Personally Identifiable Information (PII) that becomes available through the use of this third party application unless expressly stated and consent is obtained from the user. For additional information on NASA's Third-Party Privacy Notice please go to http://www.nasa.gov/about/highlights/HP_Privacy.html.

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 04/20/2018. We estimate that it will take 10 minutes to read the instructions and answer the questions. Send only comments relating to this time estimate to: richard.l.gilmore@nasa.gov.

STUDENT INSTRUCTIONS: Congratulations on taking part in a NASA educational activity! To improve this program for the future, all students who participate in this activity are being asked to complete a survey. There are no “right” or “wrong” answers to any of the questions. We want your honest answers. It should take no more than 10 minutes to complete the questions. NASA and its research team will make sure that only they will see your answers to this and future surveys for this activity. No report will use your name or describe you in any way that anyone could tell that it is you.

We also want your help to tell us how long it takes to complete this survey. So, please make note of the time that you start this survey because we will ask at the end how long it took you to complete this survey.

Thank you very much for your help!

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

Your Views about Engineering

The next sets of questions contain a number of sentences about engineering. You will be asked what you think about these sentences. Please let us know how much you agree or disagree with each of the following sentences. Place a checkmark in the circle (○) for each item.

1. How much do you agree or disagree with the following sentences about engineering?	Strongly Disagree	Disagree	Agree	Strongly Agree
a. I get excited about engineering.	○	○	○	○
b. I like to participate in engineering projects.	○	○	○	○
c. I want to understand engineering.	○	○	○	○
d. I like to see how things are made.	○	○	○	○
e. I get excited to learn about new discoveries.	○	○	○	○
f. I pay attention when people talk about the environment.	○	○	○	○
g. I am interested in engineering inventions.	○	○	○	○
h. I would like to have an engineering job in the future.	○	○	○	○
i. I enjoy playing games that teach me about engineering.	○	○	○	○
j. I like to make things.	○	○	○	○

2. How much do you agree or disagree with the following sentences about how much you like	Strongly Disagree	Disagree	Agree	Strongly Agree
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engineering?					
a.	I enjoy learning new ideas about engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b.	I have fun learning engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c.	I am interested in learning about engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d.	I like reading about engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e.	I enjoy doing engineering problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f.	Working hard now will help me do engineering work later.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. How much do you agree or disagree with the following sentences about how important engineering is to you?		Strongly Disagree	Disagree	Agree	Strongly Agree
a.	Engineering is important for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b.	Engineering is important for what I want to study later.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c.	Engineering will help me find a job.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. How much do you agree or disagree with the following sentences about engineering jobs?		Strongly Disagree	Disagree	Agree	Strongly Agree
a.	I know about different kinds of engineering jobs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b.	I know where to find information about engineering jobs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c.	I know the steps to take to get an engineering job.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d.	I know of companies that hire people to work in engineering jobs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

5. How often do you do engineering things?		Hardly Ever	Sometimes	Regularly	Very Often
a.	I watch engineering TV shows.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b.	I visit engineering websites.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c.	I watch online videos about engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d.	I attend engineering clubs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. How much do you agree or disagree with the following sentences about yourself as an		Strongly Disagree	Disagree	Agree	Strongly Agree
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engineering person?				
a. I think of myself as an engineering person.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. My friends/classmates think of me as an engineering person.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. My family thinks of me as an engineering person.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. My teacher thinks that I am good at engineering.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Engineering is easy for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. I stay away from engineering activities because they are hard.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. I am interested in a job where I will design new things.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7. How curious are you about these topics?	Not At All Curious	Not Very Curious	Fairly Curious	Very Curious
a. Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Engineering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Math	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Information about yourself

8. Your first name: _____ Your last name: _____

9. What is your birthday (MM/DD/YYYY)? Month: ____ Day: ____ Year: _____

10. What grade did you enter this school year?

5th 6th 7th 8th

11. Are you ... (Select only one)?

___ Female

___ Male

12. Are you Hispanic or Latino/Latina?

___ Yes

___ No

13. What is your Race (One or more categories may be selected)?

___ American Indian or Alaska Native

- ___Asian
- ___Black or African American
- ___Native Hawaiian or Other Pacific Islander
- ___ White or Caucasian

14. Have you ever participated in a NASA educational activity?

- Yes
- No
- I don't know

---End of Test Survey---

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

15. How many minutes did it take you to read the instructions and answer the questions?

___minutes

16. Please indicate the level to which you agree or disagree with each statement.	Strongly Disagree	Disagree	Agree	Strongly Agree
a. The survey instructions were clear.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. The questions were easy to understand.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

17. As you went through the survey, did you think of any comments or feedback you can give us about the instructions or questions?

Thank you for participating in this survey!