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.

STElamp 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

	engineering?				
a.	I enjoy learning new ideas about engineering.	○	○	○	○
b.	I have fun learning engineering.	○	○	○	○
c.	I am interested in learning about engineering.	○	○	○	○
d.	I like reading about engineering.	○	○	○	○
e.	I enjoy doing engineering problems.	○	○	○	○
f.	Working hard now will help me do engineering work later.	○	○	○	○

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.	○	○	○	○
b.	Engineering is important for what I want to study later.	○	○	○	○
c.	Engineering will help me find a job.	○	○	○	○

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.	○	○	○	○
b.	I know where to find information about engineering jobs.	○	○	○	○
c.	I know the steps to take to get an engineering job.	○	○	○	○
d.	I know of companies that hire people to work in engineering jobs.	○	○	○	○

5.	How often do you do engineering things?	Hardly Ever	Sometimes	Regularly	Very Often
a.	I watch engineering TV shows.	○	○	○	○
b.	I visit engineering websites.	○	○	○	○
c.	I watch online videos about engineering.	○	○	○	○
d.	I attend engineering clubs.	○	○	○	○

6.	How much do you agree or disagree with the following sentences about yourself as an	Strongly Disagree	Disagree	Agree	Strongly Agree

engineering person?				
a. I think of myself as an engineering person.	○	○	○	○
b. My friends/classmates think of me as an engineering person.	○	○	○	○
c. My family thinks of me as an engineering person.	○	○	○	○
d. My teacher thinks that I am good at engineering.	○	○	○	○
e. Engineering is easy for me.	○	○	○	○
f. I stay away from engineering activities because they are hard.	○	○	○	○
g. I am interested in a job where I will design new things.	○	○	○	○

7. How curious are you about these topics?	Not At All Curious	Not Very Curious	Fairly Curious	Very Curious
a. Science	○	○	○	○
b. Technology	○	○	○	○
c. Engineering	○	○	○	○
d. Math	○	○	○	○

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.	◯	◯	◯	◯
b. The questions were easy to understand.	◯	◯	◯	◯

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!