Dear Participant:

You have been given this survey because you have participated in a 4-H program or project and 4-H would like to learn about you and your experiences in 4-H.

Your answers are important and they will be kept private. But, if you don’t want to fill out the survey, you don’t have to or if there is a question you don’t want to answer, you can leave it blank.

There are no right or wrong answers, so please answer all questions honestly.

Thank you for your help!

**Your Interest in Science**

**& Science Thinking**

1. Are you interested in learning about animal science?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really  |
|  | No |

1. Are you interested in learning about plant science?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. Are you interested in learning about environmental science?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. Are you interested in learning about robotics?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. Are you interested in learning about engineering?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. How much do you like science?

|  |  |
| --- | --- |
|  | A lot |
|  | A little |
|  | Not at all |

1. Would you like a job that uses science?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. How much do you like engineering?

|  |  |
| --- | --- |
|  | A lot |
|  | A little |
|  | Not at all |

1. Would you like a job that uses engineering?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Do you ask questions about how things work?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not really |
|  | No |

1. Do you try new things to see how they will work?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. Do you look at how things are the same or different?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. Do you compare how different things work?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. Do you take things apart to see how they work?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. Do you come up with ideas for how to build new things?

|  |  |
| --- | --- |
|  | Yes |
|  | Usually |
|  | Not Really |
|  | No |

1. At 4-H, did you learn new things about science?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. At 4-H, did you learn new things about engineering?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. At 4-H, did you talk about how science can be used to help solve everyday problems?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Have you shared your science-related project with others?

**Your Science Skills & Attitudes**

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Do you know how to ask a hypothesis that can be tested?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Do you know how to plan an experiment?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Do you know how to analyze data to draw conclusions about a hypothesis?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Do you know how to communicate the results of an experiment to others?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

***For the following questions, please mark how much you agree with each sentence.***

1. I like science.

|  |  |
| --- | --- |
|  | Strongly agree |
|  | Agree |
|  | Disagree |
|  | Strongly disagree |

1. I would like a job that involves using science.

|  |  |
| --- | --- |
|  | Strongly agree |
|  | Agree |
|  | Disagree |
|  | Strongly disagree |

1. I would like to study science after high school.

**Your Engineering Skills & Attitudes**

|  |  |
| --- | --- |
|  | Strongly agree |
|  | Agree |
|  | Disagree |
|  | Strongly disagree |

1. Do you know how to define an engineering design problem?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Do you know how to identify potential solutions to a design problem?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Do you know how to evaluate test results to identify the best solution?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

1. Do you know how to communicate a design solution to others?

|  |  |
| --- | --- |
|  | Yes |
|  | Sort of |
|  | No |

***For the following questions, please mark how much you agree with each sentence.***

1. I like engineering.

|  |  |
| --- | --- |
|  | Strongly agree |
|  | Agree |
|  | Disagree |
|  | Strongly disagree |

1. I would like a job that involves using engineering.

|  |  |
| --- | --- |
|  | Strongly agree |
|  | Agree |
|  | Disagree |
|  | Strongly disagree |

1. I would like to study engineering after high school.

|  |  |
| --- | --- |
|  | Strongly agree |
|  | Agree |
|  | Disagree |
|  | Strongly disagree |

**Demographic**

1. How old are you?

|  |  |
| --- | --- |
|  | years old |

1. What grade are you in? *If it is summer break, which grade will you be starting in the fall*?

|  |  |
| --- | --- |
|  | grade |

1. What is your gender identity?

|  |  |
| --- | --- |
|  | Male (boy) |
|  | Female (girl) |
|  | My gender identity is not listed |
|  |   |
|  | I don’t want to say |

1. Which of the following best describes your race and ethnicity?

|  |  |
| --- | --- |
|  | American Indian or Alaskan Native |
|  | Asian  |
|  | Black or African American |
|  | Hispanic or Latino |
|  | Native Hawaiian/Other Pacific Islander |
|  | White or Caucasian |
|  | More than one race |
|  |   |
|  | I don’t know |

**4-H Involvement**

1. How many hours do you typically spend on 4-H activities each week?

|  |  |
| --- | --- |
|  | Less than 1 hour |
|  | 1 hour |
|  | 2 hours |
|  | 3 hours |
|  | 4 hours |
|  | 5 or more hours |

**Thank you very much!**

**Please return this survey as directed.**