**4-H Common Measures**

**Science – Full**

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?**

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

**Your Science Skills & Attitudes**

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.**

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

**Your Engineering Skills & Attitudes**

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 |

**About You**

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. **Which of the following best describes your gender?**

|  |  |
| --- | --- |
|  | Male (boy) |
|  | Female (girl) |
|  |  |
|  | I don’t want to say |

1. **Which of the following best describes your race?**

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

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 |

1. **Are you involved in 4-H at the county level?**

|  |  |
| --- | --- |
|  | Yes |
|  | No |

1. **Are you involved in 4-H at the state level?**

|  |  |
| --- | --- |
|  | Yes |
|  | No |

1. **Are you involved in 4-H at the national level?**

|  |  |
| --- | --- |
|  | Yes |
|  | No |

1. **Was this survey easy to complete?**

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

1. **Did you ask for help in completing this survey?**

|  |  |
| --- | --- |
|  | Yes |
|  | No |

1. **Why are you involved in 4-H?**
2. **What has been the most important thing you have learned by being involved in 4-H?**
3. **How might you be different if you had never been involved 4-H?**

**Thank you very much!**

**Please return this form as directed.**