

Authentic Research Training in Adolescent Health - Lucien, et al.

Appendix A. MYHealth Survey.

MYHealth Impact Projects 2022/2023 - Survey Questions

Open-ended questions

Q1.1 What do you think “research” is?

Q1.2 Reflecting back on the last year, have your thoughts of what researchers look like and do changed? How so?

Q1.3 How has your vision of yourself as a researcher changed? Please describe.

Aschbacher - Is Science Me?

Q2.1 Have you ever: (Mark one in each row)

	Yes (1)	No, because I have not been interested in this (2)	No, because this has not been available to me. (3)
Attended a science camp or special science program? (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Taken an extra science class in the summer (not a make-up class)? (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Participated in a science club or team? (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Worked on a science project or experiment in a university or professional lab? (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Visited a college campus for any reason? (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Participated in a science fair? (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Taken the ACT, PSAT, or SAT (college entrance) exam? (10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Participated in a program specifically designed to prepare you for college (for example, Upward Bound)? (11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2.2 Have you ever: (Mark one in each row)

	Yes (1)	No (2)
Had a teacher who made you dislike learning science? (5)	<input type="checkbox"/>	<input type="checkbox"/>

Had a teacher who made it exciting to learn science? (9)	<input type="checkbox"/>	<input type="checkbox"/>
Received an award or special recognition for doing well in your science classes or other science-related activities (like a science fair, competition, etc.)? (8)	<input type="checkbox"/>	<input type="checkbox"/>

Q2.3 If you go to college, how interested would you be in majoring in any of the following fields? (Mark one in each row)

	Very interested (1)	Somewhat interested (2)	Not interested (3)
Biology (Marine, Plant, etc.) (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemistry (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physics (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earth and Space Science (Geology, Astronomy, etc.) (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental Studies (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2.4 If you go to college, how interested would you be in majoring in any of the following fields? (Mark one in each row)

	Very interested (1)	Somewhat interested (2)	Not interested (3)
Pre-Medicine, Pre-Dentistry (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pre-Veterinary Science (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nursing (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engineering (Aeronautical, Electrical, Mechanical) (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computer Science (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Psychology (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Science Education (teaching) (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other science-related major: (8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2.5 Do you live with the following people most of the time? (Mark one in each row)

	Yes (1)	No (2)	Don't have (3)
Mother (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Father (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stepmother (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stepfather (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
One or more other adults in my family (legal guardian, grandparent, aunt, uncle, etc.) (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2.6 Have the following people in your family attended college? (Mark one in each row)

	Yes (1)	No (2)	I'm not sure (3)	I don't have either of these/they are not old enough to attend (4)
<p><i>Display This Choice:</i></p> <p><i>If Do you live with the following people most of the time? (Mark one in each row) = Mother [Yes]</i></p> <p><i>Or Do you live with the following people most of the time? (Mark one in each row) = Stepmother [Yes]</i></p> <p>Mother or stepmother or both (1)</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><i>Display This Choice:</i></p> <p><i>If Do you live with the following people most of the time? (Mark one in each row) = Father [Yes]</i></p> <p><i>Or Do you live with the following</i></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

people most of the time? (Mark one in each row) =
Stepfather [Yes]

Father or stepfather or both (2)

One or more older brother(s) or sister(s) (3)

Display This Choice:

If Do you live with the following people most of the time? (Mark one in each row) = One or more other adults in my family (legal guardian, grandparent, aunt, uncle, etc.) [Yes]

One or more other adults in my family (legal guardian, grandparent, aunt, uncle, etc.) (4)

Q2.7 How much do you agree or disagree with the following statements about your family (or legal guardians)? (Mark one in each row)

	Agree strongly (1)	Agree somewhat (2)	Disagree somewhat (3)	Disagree strongly (4)
It is important to them that I get good grades in school. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is important to them that I try my best in school. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
They expect me to go to college. (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

They know how well I am doing in my classes. (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
They make sure I get into the classes that are best for me. (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
They think it is important for me to learn science. (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
They think science is interesting. (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
They would be happy if I decided to pursue a career in science. (8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
They encourage me to make my own decisions about my future. (9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
They think it is more important for me to get married than to have a career. (10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2.8 How many of your close friends: (Mark one in each row)

	All (1)	Most (2)	Some (3)	None (4)
Like science? (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Think science is cool? (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Get good grades in science courses? (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Would think less of you if you did	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

science activities? (4)				
Care about their grades in school? (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Encourage you to do well in school? (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2.9 Below are some reasons for choosing a particular career. How important is each reason to you? (Mark one in each row)

	Very important (1)	Somewhat important (2)	Not important (3)
To earn a lot of money (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To make a difference in the world (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To do something I'm good at (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To have time for a family (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To be in a workplace with people who share my ethnic background (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To be in a workplace with people who are the same gender as I am (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To work outdoors (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To be interested in my work (8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To have friends where I work (9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To be able to provide for my family (10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To work in a group with others instead of by myself (11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To make my parents happy or proud of me (12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

To have time for other interests (13)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To gain respect from others (14)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To be my own boss (15)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
To have a steady job (16)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Whether I would have to go to school for a long time (17)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Whether it conflicts with what's important to my family (18)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The cost of the education and training (19)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2.10 Do you know anyone who has the following jobs? (Mark one in each row)

	Yes (1)	No (2)	I'm not sure (3)
Scientist (Biologist, Zoologist, Chemist, Physicist, Astronomer, etc.) (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Doctor, Veterinarian, Dentist (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nurse (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical Therapist (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dental Hygienist (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lab Technician (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engineer (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computer Programmer (8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Website Designer (9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Psychologist (10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Science Teacher (11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lawyer (12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Businessperson (13)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Journalist (14)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Architect, Interior Designer (15)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q2.11 How interested are YOU in having a job like these someday? (Mark one in each row)

	Very interested (1)	Somewhat interested (2)	Not interested (3)
Scientist (Biologist, Zoologist, Chemist, Physicist, Astronomer, etc.) (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Doctor, Veterinarian, Dentist (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nurse (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical Therapist (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dental Hygienist (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lab Technician (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engineer (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computer Programmer (8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Website Designer (9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Psychologist (10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Science Teacher (11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lawyer (12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Businessperson (13)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Journalist (14)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Architect, Interior Designer (15)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Researcher Identity Scale

Q3.1 Which statement about being a researcher best captures your opinion of yourself?

- I do not consider myself a researcher. (1)
- I probably do not consider myself a researcher. (2)
- I am beginning to consider myself a researcher. (3)
- I consider myself to be a student researcher. (4)
- I consider myself to be a professional researcher. (5)

Q3.2 Which statement below best describes your skills to do research?

- I do not have the skills to do research. (1)
- I am interested in gaining research skills. (2)
- I have the basic skills to help do research. (3)
- I have the skills to conduct research with a little help from others. (4)
- I have the skills to conduct research on my own. (5)

Q3.3 Which statement below best captures your identity as a researcher?

- Being a researcher is not a part of who I am. (1)
- I am not sure if being a researcher is part of my identity. (2)
- Being a researcher might be a small part of my identity. (3)
- Being a researcher is a part of my identity. (4)
- Being a researcher is a big part of my identity. (5)

Q3.4 Which statement best describes you?

- I don't consider myself part of a research community. (1)
- I am beginning to feel like part of a research community. (2)
- I am a small part of a research community. (3)
- I am a part of a research community. (4)
- I am an important part of a research community. (5)

Q3.5 Which statement best describes your interest in research?

- I do not have an interest in doing research that helps my community. (1)
- I am slightly interested in doing research that helps my community. (2)
- I might be interested in doing research that helps my community. (3)
- I would be interested in doing research that helps my community. (4)
- I am definitely interested in doing research that helps my community. (5)

Q3.6 Which statement best describes your level of comfort in communicating with researchers?

- I am uncomfortable speaking to experienced researchers right now. (1)
- I hesitate to speak with researchers that have more experience than me. (2)
- I am learning to communicate with researchers that have more experience than me. (3)
- I am comfortable talking to researchers that have more experience than me. (4)
- I can speak with confidence to researchers that have more experience than me. (5)

Q3.7 Which statement best describes your interest in contributing to society?

- I do not have desire to contribute to society through research. (1)
- I have an interest in contributing to society through research. (2)
- I have a desire to make some contribution to society through research. (3)
- I have a desire to make a meaningful contribution to society through research. (4)
- I have a strong desire to make a meaningful contribution to society through research. (5)

Q3.8 Which statement best describes your level of skill?

- I have no research skills. (1)
- I can research issues with a lot of help. (2)
- I can research issues with some help. (3)
- I can research issues with very little help. (4)
- I can research issues independently. (5)

Q3.9 Which statement best describes your level of researcher voice? We describe “researcher voice” as the extent to which you feel empowered to speak about your research.

- I do not want to have a researcher voice. (1)
- I do not have a researcher voice now, but I would like to develop one. (2)
- I can use my researcher voice to guide discussions. (3)
- I am developing a strong researcher voice. (4)
- I have a strong researcher voice. (5)

Q3.10 Which statement best describes your future plans?

- I do not plan to pursue research in the future. (1)
- I do not know if doing research is in my future. (2)
- I am not sure if a research-related degree is right for me. (3)
- I might get a research-related degree in college. (4)
- I plan to get a research-related degree in college. (5)

Q3.11 Which statement best describes your interest in research?

- I think research is boring. (1)
- I think research is a little interesting. (2)
- I think research can be interesting at times. (3)
- I think research is very interesting. (4)
- I think research is an engaging field of study. (5)

Q3.12 Which statement best describes your interest in a research career?

- A career in research would not be a good fit for me. (1)
- I am not sure if I am interested in research as a career. (2)
- I might have an interest in research as a career. (3)
- A career in research could be a good fit for me. (4)
- A career in research would be a great fit for me. (5)

Research Self-Efficacy

Q4.1 Please rate your agreement with each of the following statements.

	Strongly disagree (1)	Somewhat disagree (3)	Somewhat agree (4)	Strongly agree (5)
I can explain guidelines for conducting good research (i.e., ethical and with a rigorous method) to another person. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can teach other students to develop their own research projects on issues of concern for them. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can develop a research tool (e.g., a survey, an interview guide, etc.) that gathers useful information. (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can use research results to come up with realistic recommendations. (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Science Motivation Questionnaire-II

Q5.1 In order to better understand what you think and how you feel about your science courses, please respond to each of the following statements from the perspective of "When I am in a science course..."

	Never (1)	Rarely (2)	Sometimes (3)	Often (4)	Always (5)
The science I learn is relevant to my life. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Learning science is interesting. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Learning science makes my life more meaningful. (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am curious about discoveries in science. (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I enjoy learning science. (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q5.2 In order to better understand what you think and how you feel about your science courses, please respond to each of the following statements from the perspective of "When I am in a science course..."

	Never (1)	Rarely (2)	Sometimes (3)	Often (4)	Always (5)
I am confident I will do well on science tests. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am confident I will do well on science labs and projects. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I believe I can master science knowledge and skills. (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I believe I can earn a grade of "A" in science. (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am sure I can understand science. (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q5.3 In order to better understand what you think and how you feel about your science courses, please respond to each of the following statements from the perspective of "When I am in a science course..."

	Never (1)	Rarely (2)	Sometimes (3)	Often (4)	Always (5)
I put enough effort into learning science. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I use strategies to learn science well. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I spend a lot of time learning science. (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I prepare well for science tests and labs. (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I study hard to learn science. (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q5.4 In order to better understand what you think and how you feel about your science courses, please respond to each of the following statements from the perspective of "When I am in a science course..."

	Never (1)	Rarely (2)	Sometimes (3)	Often (4)	Always (5)
I like to do better than other students on science tests. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Getting a good science grade is important to me. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is important that I get an "A" in science. (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I think about the grade I will get in science. (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scoring high on science tests and labs matters to me. (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q5.5 In order to better understand what you think and how you feel about your science courses, please respond to each of the following statements from the perspective of "When I am in a science course..."

	Never (1)	Rarely (2)	Sometimes (3)	Often (4)	Always (5)
Learning science will help me get a good job. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowing science will give me a career advantage. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Understanding science will benefit me in my career. (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My career will involve science. (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I will use science problem-solving skills in my career. (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Science Process Skills Inventory (SPSI)

Q6.1 Please rate how much you currently can use each of the following skills when you work on a science project or research project.

	Never (1)	Sometimes (2)	Usually (3)	Always (4)

I can use scientific knowledge to form a question (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can ask a question that can be answered by collecting data (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can design a scientific procedure to answer a question (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can communicate a scientific procedure to others (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can record data accurately (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can use data to create a graph for presentation to others (8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can create a display to communicate my data and observations (14)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can analyze the results of a scientific investigation (11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can use science terms to share my results (16)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can use models to explain my results (17)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

results of my investigation to answer the question that I asked (18)

Demographics

Q7.1 How do you describe your gender identity? Check all that apply.

- Female (1)
- Male (2)
- Transgender (3)
- Genderqueer (4)
- Agender (5)
- Cisgender (6)
- Nonbinary (7)
- Prefer Not to Answer (8)
- A gender not listed (Please Specify) (9) _____

Q7.2 Mark your background below. If you come from MORE THAN ONE of these backgrounds, mark as many as apply to you. For example, if you are Filipino and Irish, mark "Filipino/Filipino American" and "White/Caucasian/European/ European American."

- African American/Black (1)
- American Indian/Alaska Native (2)
- Armenian/Armenian American (3)
- Arab/Arab American (4)
- Mexican/Mexican American/Chicano (5)
- South American/Central American Other Latino/Hispanic (Puerto Rican, etc.) (7)
- White/Caucasian/European/European American (German, Italian, Irish, Canadian, etc.) (8)
- Chinese/Chinese American (9)
- Filipino/Filipino American (10)
- Japanese/Japanese American (11)
- Korean/Korean American (12)
- Thai/Thai American (13)
- Pacific Islander/Samoan, Hawaiian or Guamanian/ Other Pacific Islander/Pacific Islander American (14)
- South Asian (Indian subcontinent)/South Asian American (15)
- Southeast Asian (Vietnamese, Cambodian, Laotian) Southeast Asian American (16)
- Other (please specify): (17) _____

Q7.3 How do you describe your disability status. We are interested regardless of whether you typically request accommodations for this disability. Check all that apply.

- A sensory impairment (vision or hearing) (1)
- A learning disability (e.g., ADHD, dyslexia) (2)
- A long-term medical illness (e.g., epilepsy, cystic fibrosis) (3)
- A mobility impairment (4)
- A mental health disorder (5)
- A temporary impairment due to illness or surgery (e.g., broken ankle, surgery) (6)
- A disability or impairment not listed above (Please specify) (7) _____
- I am not comfortable disclosing/do not wish to disclose my disability status. (9)
- I do not identify with a disability or impairment (8)

Q7.4 What zip code do you live in most of the time?

Q7.5 What would you consider the place where you live?

- Urban (1)
- Suburban (2)
- Rural (3)
- Other (please specify) (4) _____

Q7.6 What grade level are you currently in?

- 9th grade (1)
- 10th grade (2)
- 11th grade (3)
- 12th grade (4)
- Other (5) _____

Q7.7 What school do you currently attend?

Q7.8 Do you currently receive free or reduced school lunch?

- Yes (1)
- No (2)
- Not sure (3)
- Prefer Not to Answer (4)

Q7.9 Instructions: Imagine that this ladder pictures how American society is set up. At the top of the ladder are the people who are the best off — those who have the most money, the highest amount of schooling, and the best jobs. At the bottom are people with less money and less schooling. Now think about your family. Please tell us where you think your family would be on this ladder. Mark the rung that best represents where your family would be on this ladder. To make a selection, hover your mouse/cursor over the rung of the ladder you wish to select and click. Once selected, the rung will be highlighted.

	Off (1)	On (2)
Region #1 (18)		
Region #2 (19)		
Region #3 (20)		
Region #4 (21)		
Region #5 (22)		
Region #6 (23)		
Region #7 (24)		
Region #8 (25)		
Region #9 (26)		
Region #10 (27)		

Q7.10 Instructions: Now assume that the ladder is a way of picturing your school. At the top of the ladder are the people in your school with the highest grades and the highest standing. At the bottom are the

people with the worst grades and the lowest standing. Where would you place yourself on this ladder? Mark the rung that best represents where you would be on this ladder. To make a selection, hover your mouse/cursor over the rung of the ladder you wish to select and click. Once selected, the rung will be highlighted.

	Off (1)	On (2)
Region #1 (18)		
Region #2 (19)		
Region #3 (20)		
Region #4 (21)		
Region #5 (22)		
Region #6 (23)		
Region #7 (24)		
Region #8 (25)		
Region #9 (26)		
Region #10 (27)		

Q7.11 Consider the background(s) you marked above to be your "ethnic background." How much do you agree or disagree with the following statements about your ethnic background? (Mark one in each row)

	Agree strongly (1)	Agree somewhat (2)	Disagree somewhat (3)	Disagree strongly (4)
I take part in cultural practices of my ethnic background, such as special food, dance, music, or customs. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I have a clear sense of my ethnic background and what it means for me. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I prefer organizations or social groups that include mostly people who share my	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

background. (3) It is important that my role model(s) or mentor(s) share my ethnic background. (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Most of my friends share my ethnic background. (5) People who share my ethnic background have trouble getting jobs in science in this country. (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
People who share my ethnic background are well represented in science in this country. (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q7.12 How much do you agree or disagree with the following statements about your gender? (Mark one in each row)

	Agree strongly (1)	Agree somewhat (2)	Disagree somewhat (3)	Disagree strongly (4)
It is important that my role model(s) or mentor(s) are the same gender as I am. (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Most of my friends are the same gender as I am. (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
People who are the same gender as I am have trouble getting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

jobs in science in this country. (3)

People who are the same gender as I am are well represented in science in this country. (4)

Q7.13 Think about the kind of person you are (your characteristics, your likes and dislikes, etc.). How important is each of the following to making you who you are? (Mark one in each row)

	Very important (1)	Somewhat important (2)	Not important (3)
Ethnic background (1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gender (2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Religion (3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interests (sports, music, drama, etc.) (4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Friendships (5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Romantic relationships (6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Family relationships (7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other students at school (8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Media images (television, movies, magazines, etc.) (9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grades in school (10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Things you're good at (sports, music, drama, etc.) (11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical appearance (12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Personality traits (funny, opinionated, kind, etc.) (13)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Goals for the future (14)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>