

Diversity in STEM-H Cradle-to-Career – Johnson, et al.
Appendix 3. Example of REACH Program Survey



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and CAREER HUB



Math

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't Know
Math has been my worst subject.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would consider choosing a career that uses math.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Math is hard for me.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am the type of student to do well in math.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can handle most subjects well, but I cannot do a good job with math.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am sure I could do advanced work in math.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can get good grades in math.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am good at math.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Science

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't Know
I am sure of myself when I do science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would consider a career in science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I expect to use science when I get out of school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't Know
Knowing science will help me earn a living.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I will need science for my future work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I know I can do well in science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Science will be important to me in my life's work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I can handle most subjects well, but I cannot do a good job with science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am sure I could do advanced work in science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Engineering and Technology

Engineers use math, science, and creativity to research and solve problems that improve everyone's life and to invent new products. There are many different types of engineering, such as chemical, electrical, computer, mechanical, civil, environmental, and biomedical. Engineers design and improve things like bridges, cars, fabrics, foods, and virtual reality amusement parks. Technologists implement the designs that engineers develop; they build, test, and maintain products and processes.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't Know
I like to imagine creating new products.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If I learn engineering, then I can improve things that people use every day.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am good at building and fixing things.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am interested in what makes machines work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't Know
Designing products or structures will be important for my future work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would like to use creativity and innovation in my future work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Knowing how to use math and science together will allow me to invent useful things.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I believe I can be successful in a career in engineering.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

21st Century Learning

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't Know
I am confident I can lead others to accomplish a goal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am confident I can encourage others to do their best.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am confident I can produce high quality work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am confident I can respect the differences of my peers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am confident I can set my own learning goals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am confident I can manage my time wisely when working on my own.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am confident I can work well with students from different backgrounds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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Your Future

Here are descriptions of subject areas that involve math, science, engineering and/or technology, and lists of jobs connected to each subject area. As you read the list below, you will know how interested you are in the subject and the jobs. Fill in the circle that relates to how interested you are.

There are no "right" or "wrong" answers. The only correct responses are those that are true for you.

Not at all Interested Not so Interested Interested Very Interested

Medicine

involves maintaining health and preventing and treating disease. (physician's assistant, nurse, doctor, nutritionist, emergency medical technician, physical therapist, dentist)

Medical Science and Research

involves researching human disease and working to find new solutions to human health problems. (clinical laboratory technologist, medical scientist, biomedical engineer, epidemiologist, pharmacologist)

Computer Science

consists of the development and testing of computer systems, designing new programs and helping others to use computers. (computer support specialist, computer programmer, computer and network technician, gaming designer, computer software engineer, information technology specialist)

Engineering

designing, testing, and manufacturing new products (like machines, bridges, buildings, and electronics) through the use of math, science, and computers. (civil, industrial, agricultural, or mechanical engineers, welder, auto-mechanic, engineering technician, construction manager)



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Not at all Interested Not so Interested Interested Very Interested

Mathematics

is the science of numbers and their operations. (accountant, applied mathematician, economist, financial analyst, mathematician, statistician, market researcher, stock market analyst)



Veterinary Work

involves the science of preventing or treating disease in animals. (veterinary assistant, veterinarian, livestock producer, animal caretaker)



Biology and Zoology

involves the study of living organisms (such as plants and animals) and the processes of life. (biological technician, biological scientist, plant breeder, crop lab technician, animal scientist, geneticist, zoologist)



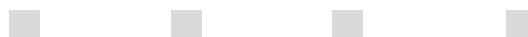
Environmental Work

involves learning about physical and biological processes that govern nature and working to improve the environment. This includes finding and designing solutions to problems like pollution, reusing waste and recycling. (pollution control analyst, environmental engineer or scientist, erosion control specialist, energy systems engineer and maintenance technician)



Energy

involves the study and generation of power, such as heat or electricity. (electrician, electrical engineer, heating, ventilation, and air conditioning (HVAC) technician, nuclear engineer, systems engineer, alternative energy systems installer or technician)





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How well do you expect to do this year in your:

	Not Very Well	OK/pretty Well	Very Well
English/Language Arts Class?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Math Class?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Science Class?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In the future, do you plan to take advanced classes in:

	YES	NO	Not Sure
Mathematics?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Science?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

More about you...

	YES	NO	Not Sure
Do you know any adults who work as scientists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you know any adults who work as engineers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you know any adults who work as mathematicians?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do you know any adults who work as technologists?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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Why did you decide to participate in this program? (Please select all that apply)

- I like science
- I like helping people
- I want to go explore jobs in the medical/health field
- I want to explore jobs in other fields (information technology, law, finance, etc.)
- It will help me get into college
- A teacher suggested it
- A family member suggested it
- Others: _____

What THREE things are most important to you in picking a high school?

- Near my house
- Most of my friends go there
- Special programs in health and sciences
- Academically selective
- Honors or Advanced Placement (AP) classes
- Special programs in a different subject
- Diversity
- Sports or other extracurricular activities
- Something Else: _____

What are your plans after high school? (Please select all that apply)

- 4-year college or university
- 2-year college or university
- Certificate program
- Full-time employment
- Part-time employment
- Military
- Not sure yet
- Prefer not to answer



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21st Century Learning

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I am confident I can produce high quality work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am confident I can respect the differences of my peers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Computer Science

consists of the development and testing of computer systems, designing new programs and helping others to use computers. (computer support specialist, computer programmer, computer and network technician, gaming designer, computer software engineer, information technology specialist)

Engineering

designing, testing, and manufacturing new products (like machines, bridges, buildings, and electronics) through the use of math, science, and computers. (civil, industrial, agricultural, or mechanical engineers, welder, auto-mechanic, engineering technician, construction manager)



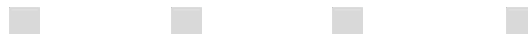
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How well do you expect to do this year in your:

	Not Very Well	OK/pretty Well	Very Well
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In the future, do you plan to take advanced classes in:

	YES	NO	Not Sure
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- Special programs in a different subject
- Diversity
- Sports or other extracurricular activities
- Something Else: _____

What are your plans after high school? (Please select all that apply)

- 4-year college or university
- 2-year college or university
- Certificate program
- Full-time employment
- Part-time employment
- Military
- Not sure yet
- Prefer not to answer



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What did you like most about the IT Explorations program?

Are there any changes that we could make to the IT Explorations program to make it better for students?

Anything else you would like to share about your time in the IT Explorations program?