## PRiSE:

## Persistence Research in Science \& Engineering

Survey of Students in Introductory College English

Researchers at the Harvard-Smithsonian Center for Astrophysics are interested in your experiences in learning science. By filling out this questionnaire you will help us find ways to improve science education for future students. Make jour best estimate for each item and añsiver as many questions as possible. Thank you for your help.

## This survey should take between 15-25 minuies to complete.

Confidentiality: Your name and any other identifying information will NOT be included in any reports, published or unpublished, arising from this study. Your anonymity is guaranteed.

Thank you for your time!


Project PRiSE is funded by the National Science Foundation, grant number NSF 0624444.

## ABOUT YOUR CAREER PLAN DEVELOPMENT:

1. Which of the following BEST describes what you want(ed) to be in middle school, high school (beginning and end), and in college? Mark only ONE choice per column.
Medical professional (e.g., doctor, dentist, vet.)

| Middle School |
| :--- |
| (Choose one) |


| Beginning of |
| :--- |
| High School |
| (Choose one) |

Biologist
Earth/Environmental scientist
Astronomer
Chemist
(Choose one)
Shysicist
(Choose one)
2. Rate the following factors in terms of their importance for your future career satisfaction:


## ABOUT YOUR MIDDLE SCHOOL SCIENCE EXPERIENCES:

3. What was your average grade in middle school science?

4. What was your average grade in middle school math?

| $\mathbf{A}+$ | $\mathbf{A}$ | $\mathbf{A}$ | $\mathbf{B}+$ | $\mathbf{B}$ | $\mathbf{B}-$ | $\mathbf{C +}$ | $\mathbf{C}$ | C- | $\mathbf{D}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

5. In middle school, how confident were you about your abilities in

| Not confident at all |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Science | 1 | 2 | 3 | 4 |  |  |  |
| Mathematics | 1 | 2 | 3 | 4 |  |  |  |

Extremely confident

6. In middle school, how interested were you in

| Not interested at all |  |  |  |  | Extremely interested |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Science | 1 | 2 | 3 | 4 | 5 |
| Mathematics | 1 | 2 | 3 | 4 | 5 |

7. What type of school did you go to? Mark all that apply.

- Private
Public
Public Charter
Private Religious
Magnet School
Vocational


## ABOUT YOUR HIGH SCHOOL BACKGROUND:

8. To help us estimate the size of the community you come from, please provide your home ZIP Code and bubble in the corresponding numbers.

9. What grade did you get in your last high school English course?
A+ A
A-
B+
B
B-
C
C-
D
F
10. Which of the following math courses did you take in high school? Mark all that apply.

- Algebra I
Algebra II
Pre-Calculus
Calculus
AP Calculus BC
Geometry
Integrated Math
Trig./Analytic Geometry
AP Calculus AB

11. For the most advanced math course you took what was your final grade?

12. For each of the following standardized tests, please indicate the score you earned on each subtest by marking the appropriate numbers.

| SAT |  |  |  |
| :---: | :---: | :---: | :---: |
| Score | Math <br> Subtest | SAT Exam <br> Writing <br> Subtest | Critical Reading <br> Stibtest |
| 200-300 |  |  |  |
| $310-400$ |  |  |  |
| $410-500$ |  |  |  |
| $510-600$ |  |  |  |
| $610-700$ |  |  |  |
| $710-800$ |  |  |  |
| Did not take SAT |  |  |  |


| $A C T$ |  |  |  |
| :---: | :---: | :---: | :---: |
| Score | Math <br> Sublest | ACTExam <br> English <br> Subtest | Science <br> Reasoning |
| -4 |  | Reading <br> Subtest |  |
| $5-8$ |  |  |  |
| $9-12$ |  |  |  |
| $13-16$ |  |  |  |
| $17-20$ |  |  |  |
| $21-24$ |  |  |  |
| $25-28$ |  |  |  |
| $29-32$ |  |  |  |
| $33-36$ |  |  |  |

13. For the high school science courses you took in biology, chemistry, and physics, please indicate the level of the course, in what high school year you took the course, what grade you earned, and the gender of the teacher. Mark only ONE level, year, grade, and gender per row. Leave the row blank if you did not take the corresponding course.

| HS <br> Course <br> Subject | Course Leve |  |  |  |  | Year <br> Taken in HS | Final Grade | Teacher Gender |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Regular | Honors | AP | IB | Other Advanced |  |  |  |
| $1^{\text {st }}$ Biology | $\bigcirc$ | O | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | (8) 9) 10 (11) 12 | A+ A (A) B+ (B) B-C+ C C- (D) F | (M) (F) |
| $1{ }^{\text {st }}$ Chem. | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | (8) (9) (10) (11) (12) | (A+ (A) (A) B+ (B) B- C+ (C) (C-) (D) F | (M) (F) |
| $1^{\text {st }}$ Physics | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | (8) (9) 10 | A+ A A- B+ B (B) C+ C C- ( $\mathrm{C}^{\text {c }}$ | (M) F |
| $2^{\text {nd }}$ Biology | O | - | ( | - | $\bigcirc$ | (9) (10) (11) (12) | (A+ (A) (A) B+ (B) (B) (C+ (C) (C) (D) (F) | (II) (F) |
| $2{ }^{\text {nd }}$ Chem. | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | O | (9) $10 \quad 11$ | A+ A A $\mathrm{B}_{+}$(B) B- $C+$ (C) C- (D) F | (M) F |
| $2^{\text {nd }}$ Physics | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | (9) (10) (11) (12) | (A+ (A) (A) B + (B) (B) C+ (C) (C) (D) (F) | (M) (F) |
| Other: | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | (9) $10 \times 11$ |  | (M) (F) |

14. For each of the AP exams you took, please indicate your test score.
AP English Language \& Composition
AP English Literature \& Composition
AP Calculus AB
AP Calculus BC
AP Biology
AP Chemistry
AP Physics B
AP Physics C Mechanics
AP Physics C Electromagnetism

AP English Language \& Composition AP English Literature \& Composition AP Calculus AB AP Calculus BC AP Biology AP Chemistry AP Physics B AP Physics C Electromagnetism

AP Test Score

| 3 | 4 | 5 | $\bigcirc \mathrm{AP}$ |
| :--- | :--- | :--- | :--- |
| 3 | 4 | 5 | $\bigcirc \mathrm{AP}$ |
| 3 | 4 | 5 | $\bigcirc \mathrm{AP}$ |
| 3 | 4 | 5 | $\bigcirc \mathrm{AP}$ |
| 3 | 4 | 5 | $\bigcirc \mathrm{AP}$ |
| 3 | 4 | 5 | $\bigcirc \mathrm{AP}$ |
| 3 | 4 | 5 | 0 AP |
| 3 | 4 | 5 | $\bigcirc \mathrm{AP}$ |
| 3 | 4 | 5 | AP |

## ABOUT YOUR LAST BIOLOGY, CHEMISTRY, AND PHYSICS COURSES IN HIGH SCHOOL:

15. What was required of you to learn the material in your last high school science courses?

| Biology: | Very little memorization of facts | (1) | (2) | (3) | 4 | 5 | 6 | A lot of memorization of facts |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very little conceptual understanding | (1) | 2 | 3 | (4) | (5) | (6) | A lot of conceptual understanding |
| Chemistry: | Very little memorization of facts | (1) | (2) | (3) | (4) | (5) | (6) | A lot of memorization of facts |
|  | Very little conceptual understanding | (1) | (2) | (3) | (4) | (5) | (6) | A lot of conceptual understanding |
| Physics: | Very little memorization of facts | (1) | (2) | (3) | 4 | 5 | 6 | A lot of memorization of facts |
|  | Very little conceptual understanding | (1) | (2) | 3 | 4 | 5 | 6 | A lot of conceptual understanding |

16. How often did a lab directly address a belief or view you had about the world in your last high school science courses?

| Never |  |  |  |  | Almost every lab |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biology: | 1 | (2) | 3 | 4 | 5 | 6 |
| Chemistry: | (1) | (2) | (3) | (4) | (5) | (6) |
| Physics: | 1 | 2 | 3 | 4 | 5 | 6 |

17. How large a role did a textbook play in your last high school science courses?

| Not used at all |  |  |  |  | Followed it closely |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biology: | (1) | 2 | (3) | 4 | 5 | 6 |
| Chemistry: | (1) | (2) | (3) | (4) | (5) | 6 |
| Physics: | (1) | 2 | (3) | 4 | 5 | 6 |

18. How many MINUTES, on average, did you spend studying or doing work ouiside of class each day for your last high school science courses?

19. Please indicate how often the following activities or events occurred:

|  |  | None | Very farely | Once/ month | 2-3 times/ month | Once/ week | 2-3 times/ week | Every day |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biology: | The teacher lectured to the class | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | O |
|  | Spent time doing individual work in class | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Tests or quizzes were given | $\bigcirc$ | O | O | O | O | O | O |
|  | You taught your classmates | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Watched science videos | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Went on field trips | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Guest speakers visited your class | 0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | C | $\bigcirc$ |
|  | Did hands-on or lab work | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| Chemistry: | The teacher lectured to the class | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Spent time doing individual work in class | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Tests or quizzes were given | 0 | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | You taught your classmates | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Watched science videos | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Went on field trips | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Guest speakers visited your class | O | - | - | $\bigcirc$ | - | $\bigcirc$ | $\bigcirc$ |
|  | Did hands-on or lab work | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| Physics: | The teacher lectured to the class | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Spent time doing individual work in class | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Tests or quizzes were given | O | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | You taught your classmates | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Watched science videos | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | O | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Went on field trips | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Guest speakers visited your class | $\bigcirc$ | O | O | O | O | $\bigcirc$ | $\bigcirc$ |
|  | Did hands-on or lab work | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |

20a. What was the distribution of male and female students in your last high school science courses?

|  | All females | More females <br> than males | About equal | More males <br> than females | All males |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Biology: | 1 | 2 | 3 | 5 | 5 |
| Chemistry: | 1 | 2 | 3 | 4 | 5 |
| Physics: | 1 | 2 | 3 | 4 | 5 |

## SERIAL \#

20b. How frequently were all the members of your group during group or lab work the same sex as you?

| Never |  |  |  |  | Almost always |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biology: | 1 | (2) | 3 | 4 | 5 | 6 |
| Chemistry: | (1) | (2) | (3) | (4) | (5) | (6) |
| Physics: | 1 | (2) | 3 | (4) | 5 | 6 |

21. Please indicate how often the following occurred during your last high school science class:

|  |  | None | Very rarely | Once/ month | 2-3 times/ month | Once/ week | 2-3 times/ week | Every class |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biology: | Whole class discussions were held | ) | $\bigcirc$ | $\bigcirc$ | ) | $\bigcirc$ | ) | $\bigcirc$ |
|  | Small group work was held | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Connected science to your everyday-life | O | O | $\bigcirc$ | O | O | O | O |
|  | Connected science to other disciplines | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | You asked questions | ) | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | O | O |
|  | You answered questions or made comments | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Other students answered questions or made comments | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Students were disrespectful to you | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Students were disrespectful to the teacher | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | O | $\bigcirc$ |
| Chemistry: | Whole class discussions were held | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Small group work was held | ) |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Connected science to your everyday-life |  |  | ) | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Connected science to other disciplines |  |  | O | O | O | O | O |
|  | You asked questions |  | Q | Q | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | You answered questions or made comments |  |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Other students answered questions or made comments |  | ¢ | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Students were disrespectfu! to you |  |  | D | $\bigcirc$ | O | - | C |
|  | Students were disrespeclful to the teachel |  |  | ¢ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| Physics: | Whole class discu'ssions were held |  |  |  | O | O | $\bigcirc$ | $\bigcirc$ |
|  | Small group work was heid |  |  | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Connected science to you everyday-life |  | - | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | O | O |
|  | Connected science to other disciplines | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | - | - | $\bigcirc$ |
|  | You asked questions | O |  | 0 | O | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | You answered questions or made comments | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Other students answered questions or made comments | O | O | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Students were disrespectful to you | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Students were disrespectful to the teacher | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | ) | O | ) | O |

22. Please indicate whether the following were discussed or occurred in your last high school science class:
Science career stages and options
Benefits of becoming a scientist
Under-representation of women in science
Work of female scientists
Female scientist guest speakers
Currently relevant science topics (e.g., global warming)
Ethics related to doing science
Teacher's science-related personal experiences/stories
23. Please indicate the number of problems of each type you had to answer in class and for homework:

|  | Problems with: | None | One/week | Two/week | 1-2/Day | 3-4/day | 5-6/day | 6+/day |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Biology | Long written explanations |  | , | O | O | $\bigcirc$ | - | - |
|  | Calculations | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
| Chemistry | Long written explanations | , | , | ) | O | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |
|  | Calculations | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | O | O | O |
| Physics | Long written explanations | D | ) | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | , | $\bigcirc$ |
|  | Calculations |  |  |  |  |  |  |  |

24. Please indicate whether the following types of questions were typically included on your science tests or quizzes.
Problems that: Biology tests $\quad$ Chemistry tests
Required calculations
Could be solved without math
Drawn from homework
Involved data analysis
Required long written responses
About material covered on previous tests/quizzes
Required sketching or drawing
Required memorizations of terms or facts
Had multiple-choice/true-false format
25. Rate the quality of your last high school science teachers:

| Poor |  |  |  |  | Excellent |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Biology Teacher | 1 | 2 | 3 | 4 | 6 |
| Chemistry Teacher | 1 | 2 | 3 | 4 | 5 |
| Physics Teacher | 1 | 2 | 3 | 4 | 5 |

## ABOUT YOUR SCIENCE-RELATED INTERESTS/ATTITUDES:

26. When was the earliest experience that you remember learning about or doing science?
Pre-K
K-3rd grade
4-6th grade
7-8th grade
9-10th grade
11-12 $2^{\text {th }}$ grade
27. How do you characterize your earliest experience?

Strongly negative/discouraging

## 28. Which of the following applied to your experiences while growing up. Mark all that appl\%:


29. How often did you do the following activities outside of school?
Few times a year Monthly
Participated in science groups/clubs/camps
Participated in science/math competitions
Engaged in personal science hobbies
Read/Watched non-fiction science
Read/Watched science fiction
Played computer/video games
Played sports
30. Please rate your general interest in the following:

| Please rate your general interest in the following: HS biology course topics | Not at all interested |  |  |  |  | Very interested |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reproduction \& development | (1) | (2) | (3) | (4) | 5 | 6 |
| Evolution | (1) | (2) | (3) | (4) | (5) | (6) |
| Ecology | 1 | 2 | (3) | (4) | 5 | 6 |
| Genetics | (1) | (2) | (3) | (4) | (5) | (6) |
| History \& people of biology | 1 | 2 | 3 | (4) | 5 | 6 |
| HS chemistry course topics | Not at all interested |  |  |  |  | Very interested |
| Stoichiometry | 1 | 2 | (3) | (4) | 5 | 6 |
| Organic chemistry | (1) | (2) | (3) | (4) | (5) | (6) |
| History \& people of chemisrty | 1 | 2 | (3) | (4) | 5 | 6 |
| HS physics course topics | Not at all interested |  |  |  |  | Very interested |
| Mechanics | (1) | (2) | 3 | (4) | 5 | 6 |
| Optics/Waves | (1) | (2) | (3) | (4) | (5) | (6) |
| Electromagnetism | (1) | 2 | (3) | (4) | 5 | 6 |
| Relativity/Modern Physics | (1) | (2) | (3) | (4) | (5) | (6) |
| History \& people of physics | 1 | 2 | 3 | (4) | 5 | 6 |

31. Please rate your general interest in the following areas:

Not at all interested interest
Conducting your own experiments
Understanding natural phenomena Understanding everyday-life science
Explaining things with facts
Using mathematics
Telling others about science concepts
Making scientific observations
Wanting to know more science
Graduating from college with honors
32. Compared with other high school courses, please rate the difficulty of the following:

## Much easier than

Much harder than other courses
Last HS biology course
Last HS chemistry course
Last HS physics course
33. Do the following people see you as a biology/chemistry/physics person?


35. In your opinion, what is the purpose of science?

Not at all
Extremely

36. Please indicate which of the following statements best describe you. Mark all that apply.

I prefer to know just a few people well.
I am seen as "outgoing" or as a"people person."
I am seen as"reflective" or"reserved." I feel comfortable being alone and like things I can do on my own.
37. Please rate your own personality in terms of introversion/extroversion:

Very introverted $\square$ (2) $\square$ (3) $\qquad$ (4) (5) $\qquad$ (6)-| Very extroverted
38. If a certain profession was dominated by people of the opposite gender to yourself, how would that influence the likelihood that you would enter that profession?

Strongly decreases Somewhat decreases likelihood
likelihood

No influence

Somewhat increases likelihood

Strongly increases likelihood
39. Please rate the likelihood of your choosing a career in:

|  | Not at all likely |  |  |  | Extremely likely |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Life sciences | (1) | (2) | (3) | 4 | (5) | (6) |
| Physical sciences | (1) | (2) | (3) | (4) | (5) | (6) |
| Engineering/Technology | (1) | (2) | (3) | (4) | (5) | (6) |
| Mathematics | (1) | (2) | (3) | (4) | (5) | (6) |

## ABOUT YOURSELF AND YOUR FAMILY:

40. Are you male or female?
$\bigcirc$ Male $\bigcirc$ Female
41. What is your race? (For multi-racial, mark all that apply.)

- White
) Asian
American Indian or Alaskan Native
Black
Pacific Islander
Other: $\qquad$

42. Are you of Hispanic origin?
$\bigcirc$ Yes $\bigcirc$ No
43. Was English the primary spoken language in your household?
$\bigcirc$ Yes $\bigcirc$ No
44. What year are you in college?
$\bigcirc$ Freshman $\bigcirc$ Sophomore $\bigcirc$ Other
45. Was your home environment supportive of science, for example, did you often visit science museums, or zoos?
$\bigcirc$ Not supportive $\bigcirc$ Occasionally supportive $\bigcirc$ Moderately supportive $\bigcirc$ Generally supportive $\bigcirc$ Very Supportive
46. Who encouraged you to take science classes? Mark all that apply.
No One $\bigcirc$ Mother/Female Guardian $\bigcirc$ Father/Male Guardian
47. What was the highest level of education for your parerits/guardians?

48. Which category best fits you and yoni parents' or guardians' bacikground?

49. Which of the following statements best describes your family's interest in science? Mark all that apply.
Science is involved in at least one parent's job.
Science is a way for you to have a better career.
Science was a series of courses that I had to pass.
50. OPTIONAL: We may want to contact you to ask follow-up questions about your science-related experiences. All communications will be kept in the strictest confidence and your email will NOT be disclosed to any third party.

Your email address: $\qquad$

