**ESTRELLA Students**

**Questionnaire-PRE**

**6-10-2025**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What prior experiences do you have with computer programming?

Check all that apply:

I have no experience with computer programming.

I have programmed using Scratch.

I have programmed using Lego Robotics.

I have programmed using Block-based programming.

I have programmed using Python.

I have programmed using\_\_\_\_\_\_\_\_\_.

1. What prior experiences do you have with mathematics?

Check all that apply:

I have taken algebra (e.g., equations, two equations with two unknowns, polynomials, linear and quadratic equations, etc.)

I have taken geometry.

I have taken probability and statistics.

I have taken trigonometry.

I have taken calculus.

1. Which of the sentences below seem similar to your own experiences in mathematics? Check all that apply.

I am expected to memorize formulas and procedures.

I am encouraged to make connections to my life experiences in relation to mathematics.

I am encouraged to use computer programming to understand mathematical concepts.

I am encouraged to solve mathematics problems using different representations.

I am encouraged to talk and think with my friends to solve mathematics problems.

I am encouraged to work in groups to solve mathematics problems.

I am encouraged to ask questions to clarify my understanding.

None of the above.

Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which of the sentences below seem similar to your experiences with computer programming? Check all that apply.

I am expected to memorize commands.

I am expected to understand programming by analyzing the code line by line.

I am expected to think about my life experiences in relation to computer programming.

I am expected to explain the code that I created.

I am encouraged to use mathematics to understand computer programming.

I am encouraged to solve computer programming tasks using different coding approaches.

I am encouraged to talk and think with my friends to complete programming assignments.

I am encouraged to work in groups to solve computer programming tasks.

None of the above.

Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which of the following careers would you like to pursue in the future? Select one or as many as you would like.
   1. Mathematics
   2. Technology
   3. Science
   4. Engineering
   5. Computer Science
   6. None of the above…
   7. Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Do you think mathematics and computer programming are related?

Yes

No

If so, how are they related?

1. If you could change anything about the way you learn mathematics at school, what would it be?
2. If you could change anything about the way you learn computer programming at school, what would it be?
3. What AI software are you familiar with? Select one or as many as you would like.
   1. I have used ChatGPT.
   2. I have used Gemini.
   3. I use Grammarly.
   4. I use voice commands with my phone.
   5. Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. If you are using AI tools, which of the following describe your experiences? Check all that apply.
   1. I use ChatGPT or another software to write essays.
   2. I use Grammarly or another software to rewrite my essays.
   3. I use ChatGPT or another software to explain Math concepts.
   4. I use ChatGPT or another software to explain Physics, Chemistry, Biology, or other concepts.
   5. Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. How much do you trust AI tools? Check all that apply.
   1. I don’t use ChatGPT or any other AI tools because I do not trust them.
   2. I use AI tools and I don’t have time to question their outputs.
   3. I use AI tools, but I always try to verify their answers.
   4. I use AI tools and I try to verify the answers if I have time.
   5. I use AI tools and I fully trust their answers.
   6. Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_