## Gallup | Google Student Survey

**Current Perspectives and Continuing Challenges in Computer Science Education in U.S. K-12 Schools**

CONSENT1   
Your parent or guardian has said that you may take a survey about your education and learning.  
  
  
You do not have to take this survey, and you can skip any questions you don't want to answer.  
  
  
Do you agree to continue with this survey?

* Yes (1)
* No (2)

End of Block: CONSENT1

Start of Block: Q01A-I

Q01 Based on what you have seen or heard, do you consider each of the following activities to be part of computer science?

Q01A Programming and coding

* Yes (1)
* No (2)

Q01B Creating new software

* Yes (1)
* No (2)

Q01C Creating documents or presentations on the computer

* Yes (1)
* No (2)

Q01D Searching the Internet

* Yes (1)
* No (2)

Q01E Analyzing large data sets

* Yes (1)
* No (2)

Q01F Artificial intelligence and machine learning

* Yes (1)
* No (2)

Q01G Creating videos or music on the computer

* Yes (1)
* No (2)

Q01H Learning to safely use the Internet

* Yes (1)
* No (2)

Q01I Hardware design and development

* Yes (1)
* No (2)

End of Block: Q01A-I

Start of Block: INTRO, Q02, Q03, Q04, Q05, Q06, Q07, Q08, Q09, Q10

INTRO   
For this survey, “computer science” means the study of computers, including both hardware and software design, development and programming. This does NOT include just using or having access to a computer in general.   
  
   
For the purposes of this study, computer science includes learning about or doing things like:   
- Developing hardware and software   
- Programming a computer   
- Writing and running computer code   
- Machine learning and artificial intelligence   
  
  
Computer science does not include things like:   
- Simply using a computer, tablet or smartphone   
- Conducting online research   
- Creating documents or presentations on the computer

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Q02 How supportive would adults in your family be if you wanted to learn computer science?

* 1 - Not at all supportive (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very supportive (5)

Q03 How important is it for YOU to learn computer science?

* 1 - Not at all important (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very important (5)

Q04 How important is it for ALL students to learn computer science?

* 1 - Not at all important (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very important (5)

Q05 How important do your friends think it is to learn computer science?

* 1 - Not at all important (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very important (5)

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Q06 How likely are you to need to know computer science for your career someday?

* 1 - Not likely at all (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very likely (5)

Q07 How likely are you to pursue a job in computer science someday?

* 1 - Not likely at all (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very likely (5)

Q08 How confident are you that you could be successful in learning computer science if you wanted to?

* 1 - Not confident at all (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very confident (5)

Q09 How interested are you in learning computer science?

* 1 - Not interested at all (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very interested (5)

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T\_Q10 On a five-point scale, where 5 means strongly agree and 1 means strongly disagree, please rate your level of agreement with the following item.

Q10 If I were interested in computer science, I would want to tell my friends about it.

* 1 - Strongly disagree (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Strongly agree (5)

End of Block: INTRO, Q02, Q03, Q04, Q05, Q06, Q07, Q08, Q09, Q10

Start of Block: Q11, Q12, Q13, Q14, Q15, Q16, Q17

T\_Q11 As a reminder, “computer science” means the study of computers, including both hardware and software design, development and programming. This does NOT include just using or having access to a computer in general.

Q11 Have you ever learned ANY computer science, such as using programming to create software, apps, games, websites, or electronics?

* Yes (1)
* No (2)
* Don’t know (3)

Q12 Did you learn ANY computer science **at school** in the past year?

* Yes (1)
* No (2)

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Q13 How satisfied are you with the **availability** of computer science education opportunities at your school?

* 1 - Very dissatisfied (1)
* 2 (2)
* 3 (3)
* 4 (4)
* 5 - Very satisfied (5)
* Don’t know (98)

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Display This Question:

If Q12 = 1

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Q14 Please rate the quality of computer science learning that you have received **at school** this year.

* Poor (1)
* Fair (2)
* Good (3)
* Very good (4)
* Excellent (5)
* Don’t know (98)

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Q15 Did you learn ANY computer science **outside of school** in the past year?

* Yes (1)
* No (2)

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Display This Question:

If Q15 = 1

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Q16 Please rate the quality of computer science learning that you have received **outside of school** in the past year.

* Poor (1)
* Fair (2)
* Good (3)
* Very good (4)
* Excellent (5)
* Don’t know (98)

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Q17 Computer science sometimes involves solving problems by finding patterns and breaking them down into a set of rules that computers follow to do things automatically. Have you ever done any of this at school?

* Yes (1)
* No (2)

End of Block: Q11, Q12, Q13, Q14, Q15, Q16, Q17

Start of Block: Q18A-I

Q18 Have you, personally, ever learned any of the following computer science concepts?

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Q18A Computer programming or coding to create things such as websites, apps, or video games

* Yes (1)
* No (2)
* Don’t know (98)

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Q18B Using techniques for breaking big problems down into smaller, easier parts

* Yes (1)
* No (2)
* Don’t know (98)

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Q18C Learning what makes computers work the way they do

* Yes (1)
* No (2)
* Don’t know (98)

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Q18D The impact of technology on society

* Yes (1)
* No (2)
* Don’t know (98)

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Q18E Robotics using programming or coding

* Yes (1)
* No (2)
* Don’t know (98)

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Q18F Artificial intelligence and machine learning

* Yes (1)
* No (2)
* Don’t know (98)

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Q18G Analyzing large data sets

* Yes (1)
* No (2)
* Don’t know (98)

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Q18H Hardware design and development

* Yes (1)
* No (2)
* Don’t know (98)

End of Block: Q18A-I

Start of Block: Q19. Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27

T\_Q19 As a reminder, “computer science” means the study of computers, including both hardware and software design, development and programming. This does NOT include just using or having access to a computer in general.

Q19 Is there an adult in your life who uses programming or coding to create advanced things like software, apps, games, websites, and electronics?

* Yes (1)
* No (2)

Q20 Has an adult in your life ever encouraged you to learn about computer science?

* Yes (1)
* No (2)

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Display This Question:

If Q20 = 1

Q21 Has a teacher ever encouraged you to learn about computer science?

* Yes (1)
* No (2)

Q22 Has an adult in your life ever encouraged you to pursue a career in computer science?

* Yes (1)
* No (2)

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Display This Question:

If Q22 = 1

Q23 Has a teacher ever encouraged you to pursue a career in computer science?

* Yes (1)
* No (2)

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T\_Q24 As a reminder, “computer science” means the study of computers, including both hardware and software design, development and programming. This does NOT include just using or having access to a computer in general.

Q24 Are there classes where ONLY computer science is taught in your school?

* Yes (1)
* No (2)
* Don’t know (3)

Q25 Is computer science taught as part of OTHER classes at your school?

* Yes (1)
* No (2)
* Don’t know (3)

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Display This Question:

If Q24 = 1

Q26 Are you currently enrolled in a class where ONLY computer science is taught?

* Yes (1)
* No (2)
* Don’t know (3)

Display This Question:

If Q25 = 1

Q27 Are you currently enrolled in a class where computer science is taught as PART of the class?

* Yes (1)
* No (2)
* Don’t know (3)

End of Block: Q19. Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27

Start of Block: Q28, Q29, Q30, Q31A-C, Q32A-C

Q28 In a typical week, about how many hours, on average, **do you spend learning computer science at school**?

▼ 0 (43) ... 20+ Hours (63)

Q29 Are there any groups or clubs that meet at your school where students learn computer science?

* Yes (1)
* No (2)
* Don’t know (3)

Q30 Are there opportunities in your community for students like you to learn computer science outside of your school?

* Yes (1)
* No (2)
* Don’t know (3)

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| Page Break |  |

Q31 About how many hours per **DAY** do you use each of these devices at **home**?

Q31A Smartphone (such as an iPhone or Samsung Galaxy)

▼ 0 (22) ... 20+ Hours (42)

Q31B Tablet (such as an iPad, Amazon Fire or Galaxy tablet)

▼ 0 (22) ... 20+ Hours (42)

Q31C Desktop or laptop computer (such as a Chromebook or MacBook)

▼ 0 (22) ... 20+ Hours (42)

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| Page Break |  |

Q32 About how many hours per **DAY** do you use each of these devices at **school**?

Q32A Smartphone (such as an iPhone or Samsung Galaxy)

▼ 0 (22) ... 20+ Hours (42)

Q32B Tablet (such as an iPad, Amazon Fire or Galaxy tablet)

▼ 0 (22) ... 20+ Hours (42)

Q32C Desktop or laptop computer (such as a Chromebook or MacBook)

▼ 0 (22) ... 20+ Hours (42)

End of Block: Q28, Q29, Q30, Q31A-C, Q32A-C