## **Gallup | Google Principal Survey**

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

INTRO Welcome! This survey is about the educational experiences of K-12 students.

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Q1   
According to our records, you work as a principal in a public school in the United States.  
Is that still the case?

* Yes (1)
* No (2)

Skip To: End of Block If Q1 = 2

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CONSENT1 Gallup is conducting this survey to learn more about the education experiences of teachers and students in your school. Your responses to this survey are completely optional, and there are no consequences if you choose not to respond. Your personal responses are confidential. Do you agree to participate in this survey?

* Yes (1)
* No (2)

Skip To: End of Block If CONSENT1 = 2

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SWEEP At the end of the survey, you will have a chance to enter a Sweepstakes for a prize drawing.  
   
 Two (2) different winners, chosen at random, will receive a $10,000.00 cash reward for their school. Should you choose not to participate in the survey, you may still be considered to enter the drawing by mailing a postcard with your Full Name and Email Address where you received this invitation to the following address:  
   
 Staci Bedel   
℅ Gallup    
1001 Gallup Dr. Omaha, NE 68102  
   
 The Official Rules for the Sweepstakes are available at:  
   
 [2020 Gallup Survey Sweepstakes Official Rules](https://gallupinc.co1.qualtrics.com/CP/File.php?F=F_1FyzZgsP1cpSYsd)

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Q2 Please indicate the grade levels that are present at your school. *(Please select all that apply.)*

* Preschool (1)
* Kindergarten (2)
* 1st (3)
* 2nd (4)
* 3rd (5)
* 4th (6)
* 5th (7)
* 6th (8)
* 7th (9)
* 8th (10)
* 9th (11)
* 10th (12)
* 11th (13)
* 12th (14)
* Other (15)

End of Block: Q1, CONSENT1, Q2

Start of Block: Q3A-I

Q3 Based on what you have seen or heard, do you consider each of the following to be part of computer science?

Q3A Programming and coding

* Yes (1)
* No (2)

Q3B Creating new software

* Yes (1)
* No (2)

Q3C Creating documents or presentations on the computer

* Yes (1)
* No (2)

Q3D Searching the Internet

* Yes (1)
* No (2)

Q3E Analyzing large data sets

* Yes (1)
* No (2)

Q3F Artificial intelligence and machine learning

* Yes (1)
* No (2)

Q3G Creating videos or music on the computer

* Yes (1)
* No (2)

Q3H Learning to safely use the Internet

* Yes (1)
* No (2)

Q3I Hardware design and development

* Yes (1)
* No (2)

End of Block: Q3A-I

Start of Block: T\_Q4

T\_Q4   
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:   
- Hardware and software design    
- Programming a computer    
- Writing and running computer code   
- Machine learning and artificial intelligence    
    
Computer science does not include:   
- Simply using a computer, tablet or smartphone    
- Conducting online research   
- Creating documents or presentations on the computer

End of Block: T\_Q4

Start of Block: Q4

Q4 On a five-point scale, where 5 means strongly agree and 1 means strongly disagree, please rate your level of agreement with each of the following statements.

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Q4A Computer science education is currently a top priority for my district.

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

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Q4B My school board is committed to offering computer science in our schools.

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

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Q4C Students should be required to take a computer science course if it is available at school.

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

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Q4D Computer science education should be incorporated into other subjects at school.

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

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Q4E People who do computer science work make things that help improve people’s lives.

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

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Q4F Parents/guardians in my school are eager to have their children pursue a career in computer science.

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

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Q4G Having computer science education would significantly improve the future career options for students at my school.

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

End of Block: Q4

Start of Block: Q5A-H, Q6

Q5 Again, on a five-point scale, where 5 means strongly agree and 1 means strongly disagree, please rate your level of agreement with each of the following statements.  
  
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.

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Q5A In the last three years, teaching computer science has become a higher priority for my school.

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

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Q5B Teachers in my school incorporate computer science education into their lesson plans.

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

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Q5C Teachers’ efforts to teach computer science concepts are highly valued at my school.

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

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Q5D It is extremely important for all students to learn computer science.

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

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Q5E Credits earned for high school computer science courses should count toward fulfilling core course requirements for graduation.

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

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Q5F Computer science is used in a lot of different types of jobs.

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

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Q5G My school would invest more in computer science education if we had the funds to do so.

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

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Q5H There is someone in my school who is able to advise students about pathways to a computer science career.

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

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Q6 Do you think offering opportunities to learn computer science is more important, just as important or less important to a student’s future success than other required courses like math, science, social studies/history and English?

* More important (1)
* Just as important (2)
* Less important (3)
* Don’t know (98)

End of Block: Q5A-H, Q6

Start of Block: Q8, Q9, Q10, Q11, Q12A-C

T\_Q8 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.

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Q9 How likely are students in your school to pursue a career in computer science someday?

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

Q8 How interested are students in your school 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 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.

Q10 Did at least some students in your school learn ANY computer science **at school** in the past year?

* Yes (1)
* No (2)

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Display This Question:

If Q10 = 1

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Q11 Overall, please rate the quality of computer science learning that students at your school have received **during school** this year.

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

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Q12 Please rate your level of satisfaction with the following items:

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Q12A The **availability** of computer science education opportunities for students at your school

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

Display This Question:

If Q10 = 1

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Q12B The **quality** of computer science education **curricula** used at your school

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

Display This Question:

If Q10 = 1

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Q12C The **quality** of computer science **instruction** at your school

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

End of Block: Q8, Q9, Q10, Q11, Q12A-C

Start of Block: Q13, Q14A-E, Q15

T\_Q13 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.

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Q13 In the next three years, do you expect the number of opportunities to learn computer science in your school will increase, stay the same or decrease?

* Increase (1)
* Stay the same (2)
* Decrease (3)
* Don’t know (98)

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Q14 Please indicate whether your school has done or has considered doing each of the following:

Q14A Partnered with local businesses or organizations to expand students’ access to computer science

* My school has done this (1)
* My school is currently considering this (2)
* My school is not considering this at this time (3)

Q14B Added staff members with the necessary skills to teach computer science

* My school has done this (1)
* My school is currently considering this (2)
* My school is not considering this at this time (3)

Q14C Made more computer science courses or curricula available

* My school has done this (1)
* My school is currently considering this (2)
* My school is not considering this at this time (3)

Q14D Encouraged teachers from other disciplines to attend professional development opportunities focused on computer science

* My school has done this (1)
* My school is currently considering this (2)
* My school is not considering this at this time (3)

Q14E   
Applied for a grant to allow your school to offer more computer science learning opportunities to students

* My school has done this (1)
* My school is currently considering this (2)
* My school is not considering this at this time (3)

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T\_Q15 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.

Q15 Please indicate which opportunities are available **for teachers** at your school. *(Please select all that apply.)*

* Professional learning about ways to incorporate computer science into other classes or subject areas (1)
* Paid time to explore computer science education training and resources (2)
* Professional learning to teach dedicated computer science courses (3)
* Resources to support clubs or activities dedicated to teaching students computer science concepts outside of class (4)
* ⊗None of these (5)

End of Block: Q13, Q14A-E, Q15

Start of Block: Q16A-H

Q16 As far as you know, does your school offer instruction in each of the following computer science concepts?

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Q16A 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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Q16B Using techniques for breaking big problems down into smaller, easier parts

* Yes (1)
* No (2)
* Don’t know (98)

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Q16C Learning what makes computers work the way they do

* Yes (1)
* No (2)
* Don’t know (98)

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Q16D The impact of technology on society

* Yes (1)
* No (2)
* Don’t know (98)

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Q16E Robotics using programming or coding

* Yes (1)
* No (2)
* Don’t know (98)

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Q16F Artificial intelligence and machine learning

* Yes (1)
* No (2)
* Don’t know (98)

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Q16G Analyzing large data sets

* Yes (1)
* No (2)
* Don’t know (98)

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Q16H Hardware design and development

* Yes (1)
* No (2)
* Don’t know (98)

End of Block: Q16A-H

Start of Block: Q17, Q18, Q19, Q20, Q21

T\_Q17 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.

Q17 Are there classes where ONLY computer science is taught in your school?

* Yes (1)
* No (2)
* Don't know (3)

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Display This Question:

If Q17 = 1

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Q18 About how many different types of **dedicated** computer science courses are available in your school this year?

* None (1)
* 1 - 2 (2)
* 3 - 5 (3)
* More than 5 (4)
* Don’t know (98)

Q19 About how many students in your school take a **dedicated** computer science course?

* None (1)
* Some (2)
* Most (3)
* All (4)
* Don’t know (5)

Q20 Is computer science taught as part of OTHER classes in your school?

* Yes (1)
* No (2)
* Don’t know (3)

Q21 Are there any groups or clubs that meet in your school where students learn computer science?

* Yes (1)
* No (2)
* Don’t know (3)

End of Block: Q17, Q18, Q19, Q20, Q21

Start of Block: Q22, Q23, Q24, Q25, Q26, Q27, Q28

Q22 Are there opportunities in your community for students to learn computer science outside of your school?

* Yes (1)
* No (2)
* Don’t know (3)

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Display This Question:

If Q10 = 1

T\_Q23 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.

Display This Question:

If Q10 = 1

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Q23 In what grades is computer science taught to students in your school? (*Please select all that apply.)*

* Preschool (1)
* Kindergarten (2)
* 1st (3)
* 2nd (4)
* 3rd (5)
* 4th (6)
* 5th (7)
* 6th (8)
* 7th (9)
* 8th (10)
* 9th (11)
* 10th (12)
* 11th (13)
* 12th (14)
* ⊗Computer science is not taught in my school (15)
* ⊗Don’t know (98)

Display This Question:

If Q10 = 1

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Q24 About how many students in your school have spent ANY time at all learning coding during school this year?

* None (1)
* Some (2)
* Most (3)
* All (4)
* Don’t know/Does not apply (98)

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Display This Question:

If Q24 = 2

Or Q24 = 3

Or Q24 = 4

Q25   
What percentage of students in your school have spent a total of 10 or more hours   
learning to code this year?

▼ 1% (1) ... 100% (100)

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Q26 What can businesses or other organizations do to ensure more schools can make high quality computer science education available to students?

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Q27 Which of the statements below describe how students access devices, such as computers, laptops or tablets, at your school? *(Please select all that apply.)*

* Students go to the library or other room to use a tablet/computer. (1)
* Students share tablets/computers that remain in each classroom. (2)
* Students share tablets/computers that are carted between classrooms. (3)
* Students are given tablets/computers that are theirs to use during the school year. (4)
* Students bring their own personal tablets/computers from home to use for school. (5)

Q28 Which of the following, if any, computer science curricula are used at your school? *(Please select all that apply.)*

* Code.org (1)
* Exploring Computer Science (ECS) (2)
* ScratchEd/Creative Computing (3)
* Mobile CSP (4)
* Beauty and Joy of Computing (BJC) (5)
* Project Lead the Way (PLTW) (6)
* CS First (Google) (7)
* Another curriculum (9)
* ⊗None of these (8)

End of Block: Q22, Q23, Q24, Q25, Q26, Q27, Q28

Start of Block: D1, D2, D3, D4, D5, D6, SWEEPSTAKES

T\_D1 The last few questions are about you and the school you serve.

D1 How many total years have you been a public school principal at any school?

▼ < 1 Year (52) ... 50+ Years (102)

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D2 Which of the following best describes the area in which your school is located?

* City (1)
* Suburb (2)
* Town (3)
* Rural (4)
* Don’t know/Does not apply (98)

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D3 What is the ZIP Code where your school is located?

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D4 About how many students currently attend your school?

* Less than 100 (1)
* 100 – 500 (2)
* 501 – 1,000 (3)
* 1,001 – 2,000 (4)
* 2,001 or more (5)

D5 Which of the following best describes the type of students your school generally serves?

* Low-income (1)
* Middle-income (2)
* High-income (3)

D6 Which of the following best describes your school?

* Elementary school (1)
* Middle/Junior high school (2)
* High school (3)
* Combined (4)
* Other (5)

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SWEEPSTAKES You will now have the opportunity to be entered in the 2020 Principal Survey on Education Topics Sweepstakes. Participation is completely confidential, and Gallup will select the winner(s) in a random drawing.  
   
 Each sweepstakes participant is eligible to win one of two $10,000 prizes for their school. The official rules for the Sweepstakes are available at:   
  
 [2020 Gallup Survey Sweepstakes Official Rules](https://gallupinc.co1.qualtrics.com/CP/File.php?F=F_1FyzZgsP1cpSYsd)   
  
 Participation in the drawing is voluntary and completely confidential.

* Yes, I would like to enter the Sweepstakes (1)
* No, I would not like to enter the Sweepstakes (2)

End of Block: D1, D2, D3, D4, D5, D6, SWEEPSTAKES