

Survey of Mathematics Teachers on Math & Computer Science

- 1 I would find it easy to describe computer science – both as a college major and a career – to my students.

Strongly Disagree					Strongly Agree	Don't Know
1	2	3	4	5	6	

- 2 Students in my school would benefit from learning more about computer science.

Strongly Disagree					Strongly Agree	Don't Know
1	2	3	4	5	6	

- 3 I would be interested and willing to teach a class in discrete mathematics (see list below) if the appropriate materials and training were available.

Strongly Disagree					Strongly Agree	Don't Know
1	2	3	4	5	6	

A high school course in discrete mathematics might include a few of the following topics:

- Logic - a study of reasoning;
- Set theory - a study of collections of elements;
- Number theory;
- Combinatorics - a study of counting;
- Graph theory;
- Digital geometry and digital topology;
- Algorithmics - a study of methods of calculation;
- Information theory;
- Computability and complexity theories - dealing with theoretical and practical limitations of algorithms;
- Elementary probability theory and Markov chains;
- Linear algebra - a study of related linear equations.
- Functions
- Partially Ordered Sets
- Probability
- Proofs
- Counting and Relations
- Collections

- 4 I would be interested and willing to use Excel as a teaching tool if the appropriate materials and training were available.

Strongly Disagree				Strongly Agree	Don't Know
1	2	3	4	5	6

- 5 I would be interested and willing to use programming graphing calculators as a tool for teaching mathematics if the appropriate materials and training were available.

Strongly Disagree				Strongly Agree	Don't Know
1	2	3	4	5	6

- 6 I would be interested and willing to feature other types of computer programming in one of my math classes if the appropriate materials and training were available.

Strongly Disagree				Strongly Agree	Don't Know
1	2	3	4	5	6

- 7 Students' understanding of mathematics concepts could be improved by the appropriate use of computer programming assignments in a mathematics class.

Strongly Disagree				Strongly Agree	Don't Know
1	2	3	4	5	6

- 8 Now that three years of mathematics are required for graduation, computer science should be allowed as one of these years.

Strongly Disagree				Strongly Agree	Don't Know
1	2	3	4	5	6

- 9 The most significant obstacle to integrating computer science into one of my mathematics classes would be...



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- 10** To be comfortable and prepared to feature computer programming in one of my mathematics classes I would need...



DEMOGRAPHIC INFORMATION

- 11** Approximately how many students are enrolled in your school?

- under 500
 - 500-1,000
 - 1,001-1,500
 - 1,501-2,000
 - 2,001-2,500
 - 2,501-3,000
 - More than 3,000
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12 How large are your math classes? i.e. What is the average number of students per class session?

- 1-5
- 6-10
- 11-15
- 16-20
- 21-25
- 26-30
- 31-35
- 36-40
- 41-45
- 46-50
- More than 50

13 In what county is your school located?

14 Is your school public or private?

- Public
- Private

15 What are the main courses that you teach?

16 How many years have you been teaching?

17 Optional: Name



18 Optional: School



19 Optional: Email

ADDITIONAL INFORMATION AND IDEAS

- 20** If your school offers computer science or programming courses, please share with us the instructor's name, e-mail and courses taught.

- 21** If you know of any instructors who teach an integrated math and computer science class, please provide the instructor's name and how we might contact them.

- 22** Please share any ideas you have regarding how more students could be introduced to computer science as a possible college major.



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