

Assessing Student Interest in Computer Science

TOPIC	<p>Perceived relevance to own future*</p>
	<p>If you are interested in knowing if students think computer science is valuable and relevant to their own futures, use these items.</p>
ITEMS	<p>Item response choices: <i>Strongly disagree, Disagree, Somewhat disagree, Somewhat agree, Agree, Strongly agree</i></p>
	<p>How much do you agree or disagree with the following?</p> <ul style="list-style-type: none"> • Computer science is useful in the real world. • Computer science is important for finding a job in the future. • Computer science is important for finding a high paying job in the future. <p>How much do you agree or disagree with the following?</p> <ul style="list-style-type: none"> • Taking computer science is necessary for me to accomplish what I want in school. • Taking computer science will help me reach my goals for college/career.

TOPIC	<p>Intrinsic motivation - CS</p>
	<p>If you are interested in knowing what would motivate students to take a computer science course, use these items.</p>
ITEMS	<p>Item response choices: <i>Strongly disagree, Disagree, Somewhat disagree, Somewhat agree, Agree, Strongly agree</i></p>
	<p>How much do you agree or disagree with the following?</p> <ul style="list-style-type: none"> • I find computer science to be very interesting. • I enjoy learning about computer science. • I want to be good at computer science. • Learning about computer science is fun. • I think it would be cool to choose a job/career in computer science.

<p style="text-align: center;">TOPIC</p>	<p style="text-align: center;">Self-efficacy - CS</p> <p>If you are interested in knowing how confident students currently feel about their computing abilities, use these items.</p>
<p style="text-align: center;">ITEMS</p>	<p>Item response choices: <i>Strongly disagree, Disagree, Somewhat disagree, Somewhat agree, Agree, Strongly agree</i></p> <p>How much do you agree or disagree with the following?</p> <ul style="list-style-type: none"> • I have the skills and ability to learn computer science. • I am better at computer science than most of the other kinds at my school. • I am very good at computer science. • I can figure out how to solve the most difficult computer science tasks if I try.

<p style="text-align: center;">TOPIC</p>	<p style="text-align: center;">Community beliefs and values (Friends and families)*</p> <p>If you are interested in knowing what students think their family and friends think about computer science, use these items.</p>
<p style="text-align: center;">ITEMS</p>	<p>Item response choices: <i>Strongly disagree, Disagree, Somewhat disagree, Somewhat agree, Agree, Strongly agree</i></p> <p>How much do you agree or disagree with the following?</p> <ul style="list-style-type: none"> • My friends think it's cool to choose a job/career in computer science. • My friends think it is important for students to take computer science. • My family members think it would be good for me to choose a job/career in computer science. • My family thinks it is very useful for me to take this course. • My family thinks I should take more computer science courses.

<p style="text-align: center;">TOPIC</p>	<p style="text-align: center;">Motivation to enroll</p> <p>If you are interested in knowing more specifically what would influence students to take a computer science course at school, use these items [or add your own].</p>
<p style="text-align: center;">ITEMS</p>	<p>If you had the opportunity to take a computer science course at school, what would influence your decision to take the course? Select your top 3 reasons.</p> <ul style="list-style-type: none"> • My interest in computer science. • I think it is good for me to learn. • I will need computer science skills in the future. • It would help me reach my college and/or career goals. • If it were a prerequisite for another course. • If other students encouraged me to take it. • If a teacher encouraged me to take it. • If a guidance counselor/advisor encouraged me to take it. • If a family member encouraged me to take it. • If my friends were taking the course. • If the course fit well in my school schedule. • Only if nothing else fit in my school schedule. • If I liked the teacher. <hr style="width: 20%; margin: 20px auto;"/> <p>I would rather take computer science than (select all that apply):</p> <ul style="list-style-type: none"> • [insert other electives at your school here] • [insert other electives at your school here] • [insert other electives at your school here]

TOPIC	CS definition & questions - open-ended If you want to know what “computer science” means to students (i.e., their understanding of what is, and what is not computer science, and how other terms like “programming” or technology are related), use these open-ended items.
ITEMS	<ul style="list-style-type: none">• What does “computer science” mean to you? • Do you have any other thoughts about computer science that you would like to share?

* These items have been assessed for and determined to have repeat usability and consistency.