PROACT-CS Longitudinal Study (PID: 198880)

03/02/2026 12:27pm

#	Variable / Field Name	Field Label *Field Note*	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)
Instrument: Assent Form (assent_form) **Enabled as survey**			
1	[record_id]		text Field Annotation: @HIDDEN
2	[duration_assent]	Section Header: *5%* Time spent on Assent Form	calc Calculation: [survey-duration:assent_form] Field Annotation: @HIDDEN
3	[study_id]	Please enter your unique Study ID provided to you by your teacher for this survey. Make sure it matches exactly. *Note: Include all spaces and dashes exactly how it was provided to you!*	text, Required
4	[studyid_upper]	Cleaned ID	text Field Annotation: @CALCTEXT(upper(replace_text([study_id], " ", ""))) @HIDDEN
5	[study_id2]	Please re-enter your unique Study ID provided to you by your teacher for this survey. Make sure it matches exactly. *Note: Include all spaces and dashes exactly how it was provided to you!*	text, Required
6	[studyid2_upper]	Cleaned ID2	text Field Annotation: @CALCTEXT(upper(replace_text([study_id2], " ", ""))) @HIDDEN
7	[incorrect_id_2] Show the field ONLY if: ([studyid_upper] != "" AND [studyid2_upper] != "") AND ([studyid_upper] != [studyid2_upper])	ERROR: Please be sure you entered the same Study ID in both fields above, and try again! Are the dashes in the same place?	descriptive
8	[age]	Section Header:	radio, Required

<table>
<tr>
<td></td>
<td></td>
<td>Please select your AGE</td>
<td>
<table>
<tr><td>9</td><td>9 or younger</td></tr>
<tr><td>10</td><td>10</td></tr>
<tr><td>11</td><td>11</td></tr>
<tr><td>12</td><td>12</td></tr>
<tr><td>13</td><td>13</td></tr>
<tr><td>14</td><td>14</td></tr>
<tr><td>15</td><td>15</td></tr>
<tr><td>16</td><td>16</td></tr>
<tr><td>17</td><td>17</td></tr>
<tr><td>18</td><td>18</td></tr>
<tr><td>19</td><td>19 or older</td></tr>
<tr><td>-999</td><td>I don't want to say</td></tr>
</table>
Custom alignment: LV
</td>
</tr>
<tr>
<td>9</td>
<td>[assent]

Show the field ONLY if:
[age]<18</td>
<td>Protocol Title: PROACT Longitudinal Study (Protocol # PROACT02-24-25)Sponsors: Amazon Future Engineer, Siegel Family Endowment, Microsoft, GooglePrincipal Investigator: Dr. Joseph C. Tise (Institute for Advancing Computing Education)Address: 2601 W. Lake Ave., Ste A6, #170, Peoria, IL 61615Telephone: (773) 231-0600 Please read the following assent form carefully. You are being asked to complete a short survey because you are enrolled in a middle or high school that is participating in a research study. You can say "Yes" or "No" to being in this study. You can ask as many questions as you like before you decide. Why is the study being done? The study will help scientists learn more about students' feelings about computer science. The scientists are interested in how students' feelings about computer science change over time (multiple years). About 6,800 other students will be in this study around the U.S.What will happen if I am in this study? You will take a survey once per year while enrolled in your current school. The yearly survey will take about 20 minutes to complete. You will answer several questions about how you feel about computer science. You will answer</td>
<td>descriptive</td>
</tr>
</table>

		questions about yourself that may feel sensitive in nature. For example, we will ask about your gender, ethnicity, and proficiency with the English language. Can I get hurt in the study? Participating in this study should not put you at any physical risk.Will I get paid for participating? You will be automatically entered into a raffle to win one of one hundred $25 gift cards for participating.Will this study help me? Being in this study might not help you directly. But the researchers hope to learn more about how you feel about computer science so that it might help other students in the future. Do I have to be in this study? You do not have to be in this study, even if your parent or guardian wants you to be. You can say "No." No one will be mad at you. If you say "Yes" now, you can change your mind at any time. You just have to tell your teacher or a parent or guardian that you want to stop. You don't have to say why. You can talk to your parents and your teacher and ask them questions about the study at any time. Click "Next" to take the survey and give your assent (agreement to participate).	
10	[consent_adult] Show the field ONLY if: [age]>17	Protocol Title: PROACT Longitudinal Study (Protocol # PROACT02-24-25)Sponsors: Amazon Future Engineer, Siegel Family Endowment, Microsoft, GooglePrincipal Investigator: Dr. Joseph C. Tise (Institute for Advancing Computing Education)Address: 2601 W. Lake Ave., Ste A6, #170, Peoria, IL 61615Telephone: (773) 231-0600Our team is studying how students feel about learning computer science. We're asking you to participate in this survey. Here's a quick overview to help you decide if you want to participate: We're inviting you to join a study on learning computer science. You will take one survey per year while enrolled at a participating school. Each survey session will take about 25 minutes. Even if you have not studied computer science, we still would like you to participate. Participation is voluntary; you can withdraw at any time without penalty. The alternative is not participating. The only risks are similar to regular computer use in school. Although there are no immediate benefits to you, your participation can help future education advancements. The above overview isn't comprehensive. Please review the rest of this consent form for all necessary details before deciding about participation. Who is the Study Team and How is the	descriptive

Study Funded? This study is run by Joseph Tise, PhD, and Monica McGill, EdD, trained researchers from the Institute for Advancing Computing Education (IACE). Funding for this study comes from Amazon Future Engineer, Microsoft Philanthropies, Siegel Family Endowment, and Google but they won't have access to individual student data. How Many People Will Take Part in the Study? About 6,800 students from 40 schools across the United States are expected to participate in this study. What is Involved in this Research Study? You will take one survey annually about your views on learning computer science, your abilities, and your experiences with computer science. Information such as your age, gender, ethnicity, grade, school, disability status, and English proficiency will also be collected. What About Privacy and Confidentiality? To protect privacy, you will receive a unique code, with your records linked to this code rather than providing your name. Codes will be maintained at your school, so the Institute for Advancing Computing Education will not know if you participated. Only summary results will be reported, without any identifying information. We will make every effort to keep your information confidential, as permitted by law. Will Participating in this Study Benefit Me? While you won't directly benefit from participating in this study, your input will help us understand middle and high school students' views on learning computer science now and in the future. What Are the Risks and Costs Associated with This Research? There are limited risks to you. You may skip any questions you don't want to answer, and you may end the survey at any time. Participation in this study is free and voluntary. All study-related costs, including tests, supplies, and procedures, will be covered. How long will your data be kept? Your de-identified data (without your personal information) will be kept indefinitely for future statistical analyses. If you wish for your data to be destroyed after participating, please contact your responsible staff member, and they will send the request to the research team. Will I be paid for participating? You will be automatically entered into a raffle to win one of one hundred $25 gift cards for participating. Whom to Contact If You Have Questions Or Problems? For questions about this study, please contact your teacher or responsible staff member. If you have any

		questions or concerns, please contact the West Coast Analytics Institutional Review Board at https://www.westcoastanalytics.com/contact.html. By continuing with this survey, I confirm the following: I have read all of this consent form. All of my questions have been answered to my satisfaction. I can stop participating in this study at any time without giving a reason and without penalty. I agree to the collection, use, sharing and analysis of my information collected as part of this study by the research team, the sponsor/funding entity, and other authorized persons and regulatory agencies as described in this form. I will be given a copy of this signed and dated consent form to keep. I do not give up any legal rights that I would otherwise have if I were not in this study.	
11	[assent_form_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Administrative Questions (administrative_questions) **Enabled as survey**			
12	[duration_admin]	Section Header: *10%*	calc Calculation: [survey-duration:administrative_questions] Field Annotation: @HIDDEN
13	[gender]	What is your gender?	text (alpha_only) Custom alignment: LV
14	[race]	What is your race/ethnicity? Choose all that apply.	checkbox, Required 1 race___1 African-American/Black 2 race___2 Asian - Central (e.g., Kazakhstan, Afghanistan, Turkmenistan) 3 race___3 Asian - East (e.g., China, Japan, Korea) 4 race___4 Asian - South (e.g., India, Sri Lanka, Nepal)

<table>
<tr><td></td><td></td><td></td><td>
<table>
<tr><td>5</td><td>race___5</td><td>Asian - Southeast (e.g., Thailand, Vietnam, Singapore, Indonesia)</td></tr>
<tr><td>6</td><td>race___6</td><td>Hawaiian/Pacific Islander</td></tr>
<tr><td>7</td><td>race___7</td><td>Hispanic/Latino(a)</td></tr>
<tr><td>8</td><td>race___8</td><td>Middle Eastern/North African</td></tr>
<tr><td>9</td><td>race___9</td><td>Native American/Native Alaskan</td></tr>
<tr><td>10</td><td>race___10</td><td>White</td></tr>
<tr><td>11</td><td>race___11</td><td>Another race/ethnicity (please specify):{other_race}</td></tr>
<tr><td>-998</td><td>race____998</td><td>I'm not sure</td></tr>
<tr><td>-999</td><td>race____999</td><td>I don't want to say</td></tr>
</table>

Custom alignment: LV
Field Annotation: @NONEOFTHEABOVE=-999
</td></tr>
<tr><td>15</td><td>[other_race]</td><td></td><td>text</td></tr>
<tr><td>16</td><td>[email]

Show the field ONLY if: [age]>17</td><td>Please enter your personal email (i.e., not school email).

We would like to send you a follow-up survey next year after you graduate! We will use it to better understand how your thoughts about computer science develop after graduation.</td><td>text (email), Identifier</td></tr>
<tr><td>17</td><td>[home_language]</td><td>At home, do you speak English or a different language?</td><td>radio, Required
<table>
<tr><td>1</td><td>All or mostly English</td></tr>
<tr><td>0</td><td>All or mostly a different language</td></tr>
<tr><td>-999</td><td>I don't want to say</td></tr>
</table>

Custom alignment: LV</td></tr>
<tr><td>18</td><td>[iep]</td><td>Do you have an individual education plan (IEP), 504 plan, or other official accommodations given by your school?

Accommodations can be things like more time to take a test or</td><td>radio, Required
<table>
<tr><td>1</td><td>Yes, I have some sort of accommodations</td></tr>
<tr><td>0</td><td>No, I do not have accommodations</td></tr>
</table></td></tr>
</table>

		listen to audio recordings instead of reading text. They depend on your need.	2 | I'm not sure -999 | I don't want to say Custom alignment: LV
19	[disability_tool] Show the field ONLY if: [iep] = 1	Do you need an accessibility or assistive tool (like a screen reader, speech-to-text, etc.) to use a computer due to your disability or accommodations?	radio, Required 1 | Yes 0 | No 2 | I'm not sure -999 | I don't want to say Custom alignment: LV
20	[disability_tool_use] Show the field ONLY if: [disability_tool] = '1'	When you needed an accessibility or assistive tool (like a screen reader, talk-to-text, etc.) to use a computer due to your disability, how often were you able to use one?	radio, Required 5 | Always 4 | Almost always 3 | Sometimes 2 | Rarely 1 | Never -999 | I don't want to say Custom alignment: LV
21	[administrative_questions_complete]	Section Header: *Form Status* Complete?	dropdown 0 | Incomplete 1 | Unverified 2 | Complete
Instrument: Academics Intentions To Persist (academics_intentions_to_persist) **Enabled as survey**			
22	[duration_academics]	Section Header: *15% Great job so far, keep it up!*	calc Calculation: [survey-duration:academics_intentions_to_persist] Field Annotation: @HIDDEN
23	[grade]	What grade are you in?	radio, Required

			6 | 6th grade 7 | 7th grade 8 | 8th grade 9 | 9th grade 10 | 10th grade 11 | 11th grade 12 | 12th grade 13 | Other -999 | I don't want to say Custom alignment: LV
24	[know_gpa] Show the field ONLY if: [grade] > 8 AND [grade] < 13	Do you know (approximately) your high school GPA?	radio, Required 1 | Yes 0 | No -999 | I don't want to say Custom alignment: LV
25	[gpa] Show the field ONLY if: [know_gpa] = '1'	What's your estimated overall high school GPA? *Note: Report two decimal places (e.g. 2.68)*	text (number_2dp, Min: 0)
26	[gpa_weighted] Show the field ONLY if: [know_gpa] = '1'	Is your GPA weighted or unweighted?A weighted GPA means that a more difficult course (like an Advanced Placement [AP] course) is graded on a different scale compared to a standard course (for example, an "A" in an AP course would be 5.0 instead of 4.0).	radio, Required 0 | Unweighted 1 | Weighted -998 | I'm not sure -999 | I don't want to say Custom alignment: LV
27	[cs_description]	Section Header: *17%* Computer science includes learning about or doing things like: Designing or developing hardware and software for	descriptive Field Annotation: @NOW-SERVER

		computers Writing and running computer code Robotics Cybersecurity Machine learning and artificial intelligence Creating websites Designing digital games Understanding how computers affect us, and what's right or wrong when using computers Computer science doesn't include things like: Playing a game on your computer, tablet, iPad or smartphone Searching the internet or using social media Making documents or presentations Creating content for social media Using ChatGPT or other AI	
28	[learn_cs]	Based on what you just read, did you ever learn about computer science in school (this year or any year before)?	radio, Required 1 Yes 0 No -998 I'm not sure -999 I don't want to say Custom alignment: LV
29	[learning_cs]	Based on what you just read, are you currently learning about computer science in school (this semester)?	radio, Required 1 Yes 0 No -998 I'm not sure -999 I don't want to say Custom alignment: LV
30	[cs_class] Show the field ONLY if: [learn_cs] != '0' AND [learn_cs] != '-999'	Did you have a class that was all about computer science (for example, a 9-week or 16-week class that only focused on computer science)?	radio, Required 1 Yes 0 No -998 I'm not sure -999 I don't want to say Custom alignment: LV
31	[cs_class_number] Show the field ONLY if:	How many computer science classes have you ever taken in school (including this year and all previous school years)?	radio, Required 0 None

	[cs_class] = '1'		<table><tr><td>1</td><td>1</td></tr><tr><td>2</td><td>2</td></tr><tr><td>3</td><td>3</td></tr><tr><td>4</td><td>4</td></tr><tr><td>5</td><td>5</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7</td></tr><tr><td>8</td><td>8 or more</td></tr><tr><td>-999</td><td>I don't want to say</td></tr></table> Custom alignment: LV
32	[cs_class_topics] Show the field ONLY if: [cs_class_number] > '0'	What kinds of computer science classes have you taken? Choose all that fit. (A computer science class lasts at least 9 weeks and mainly talks about computer science.)	checkbox, Required <table><tr><td>1</td><td>cs_class_topics___1</td><td>Computer science course without coding</td></tr><tr><td>2</td><td>cs_class_topics___2</td><td>Coding course (like Java, Python, C++)</td></tr><tr><td>3</td><td>cs_class_topics___3</td><td>Web design</td></tr><tr><td>4</td><td>cs_class_topics___4</td><td>Game design</td></tr><tr><td>5</td><td>cs_class_topics___5</td><td>Robotics</td></tr><tr><td>6</td><td>cs_class_topics___6</td><td>Cybersecurity</td></tr><tr><td>7</td><td>cs_class_topics___7</td><td>Physical computing (like E-textiles, Raspberry Pi, micro:bit, Arduino)</td></tr><tr><td>8</td><td>cs_class_topics___8</td><td>Artificial Intelligence and Machine Learning</td></tr><tr><td>9</td><td>cs_class_topics___9</td><td>Data Science</td></tr><tr><td>10</td><td>cs_class_topics___10</td><td>Other type of course:</td></tr></table>

<table>
<tr><td></td><td></td><td></td><td>
<table>
<tr><td></td><td></td><td>{other_course}</td></tr>
<tr><td>-999</td><td>cs_class_topics____999</td><td>I don't want to say</td></tr>
</table>
Custom alignment: LV
Field Annotation: @NONEOFTHEABOVE=-999
</td></tr>
<tr><td>33</td><td>[other_course]</td><td></td><td>text</td></tr>
<tr><td>34</td><td>[cs_class_provider]

Show the field ONLY if:
[cs_class_number] > '0'</td><td>Who helped teach or provide resources for your computer science classes? Pick all that fit.</td><td>checkbox, Required
<table>
<tr><td>1</td><td>cs_class_provider___1</td><td>Microsoft TEALS</td></tr>
<tr><td>2</td><td>cs_class_provider___2</td><td>Amazon Future Engineer</td></tr>
<tr><td>3</td><td>cs_class_provider___3</td><td>Code.org</td></tr>
<tr><td>4</td><td>cs_class_provider___4</td><td>BootUp Curriculum</td></tr>
<tr><td>5</td><td>cs_class_provider___5</td><td>Google CS First</td></tr>
<tr><td>6</td><td>cs_class_provider___6</td><td>Scratch</td></tr>
<tr><td>7</td><td>cs_class_provider___7</td><td>Raspberry Pi (Experience CS)</td></tr>
<tr><td>8</td><td>cs_class_provider___8</td><td>Another organization: {other_org}</td></tr>
<tr><td>0</td><td>cs_class_provider___0</td><td>None of these</td></tr>
<tr><td>-998</td><td>cs_class_provider____998</td><td>I'm not sure</td></tr>
<tr><td>-999</td><td>cs_class_provider____999</td><td>I don't want to say</td></tr>
</table>
Custom alignment: LV
Field Annotation: @NONEOFTHEABOVE=0</td></tr>
<tr><td>35</td><td>[other_org]

Show the field ONLY if:
[cs_class_number] > '0'</td><td></td><td>text</td></tr>
<tr><td>36</td><td>[cs_class_ap]

Show the field ONLY if:</td><td>Were any of your computer science courses an advanced placement (AP) course (such as AP CS A or AP CS Principles)?</td><td>radio, Required
<table>
<tr><td>1</td><td>Yes</td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td>[cs_class_number] > '0' AND [grade]>8</td><td></td><td><table><tr><td>0</td><td>No</td></tr><tr><td>-998</td><td>I'm not sure</td></tr><tr><td>-999</td><td>I don't want to say</td></tr></table>
Custom alignment: LV</td></tr>
<tr><td>37</td><td>[cs_class_ap_taken]

Show the field ONLY if: [cs_class_ap] = '1' AND [grade]>8</td><td>Which advanced placement (AP) course(s) have you taken? (select all that apply)</td><td>checkbox, Required<table><tr><td>1</td><td>cs_class_ap_taken___1</td><td>AP CS A</td></tr><tr><td>2</td><td>cs_class_ap_taken___2</td><td>AP CS Principles</td></tr><tr><td>-999</td><td>cs_class_ap_taken____999</td><td>I don't want to say</td></tr></table>
Custom alignment: LV
Field Annotation: @NONEOFTHEABOVE=-999</td></tr>
<tr><td>38</td><td>[activity1]</td><td>Section Header: Please indicate where you have done each of the following (if at all). Select all that apply. If you have done something in multiple places (e.g., In class and On your own), select both.

Designed projects combining hardware and software</td><td>checkbox, Required<table><tr><td>1</td><td>activity1___1</td><td>In class</td></tr><tr><td>2</td><td>activity1___2</td><td>After-school club</td></tr><tr><td>3</td><td>activity1___3</td><td>On my own</td></tr><tr><td>0</td><td>activity1___0</td><td>Never done this</td></tr></table>
Field Annotation: @NONEOFTHEABOVE=0</td></tr>
<tr><td>39</td><td>[activity2]</td><td>Identified and fixed computer hardware problems</td><td>checkbox, Required<table><tr><td>1</td><td>activity2___1</td><td>In class</td></tr><tr><td>2</td><td>activity2___2</td><td>After-school club</td></tr><tr><td>3</td><td>activity2___3</td><td>On my own</td></tr><tr><td>0</td><td>activity2___0</td><td>Never done this</td></tr></table>
Field Annotation: @NONEOFTHEABOVE=0</td></tr>
<tr><td>40</td><td>[activity3]</td><td>Learned about networking (like the Internet)</td><td>checkbox, Required<table><tr><td>1</td><td>activity3___1</td><td>In class</td></tr><tr><td>2</td><td>activity3___2</td><td>After-school club</td></tr></table></td></tr>
</table>

			3 activity3___3 On my own 0 activity3___0 Never done this Field Annotation: @NONEOFTHEABOVE=0
41	[activity4]	Learned about cybersecurity	checkbox, Required 1 activity4___1 In class 2 activity4___2 After-school club 3 activity4___3 On my own 0 activity4___0 Never done this Field Annotation: @NONEOFTHEABOVE=0
42	[activity5]	Learned about data storage and data privacy	checkbox, Required 1 activity5___1 In class 2 activity5___2 After-school club 3 activity5___3 On my own 0 activity5___0 Never done this Field Annotation: @NONEOFTHEABOVE=0
43	[activity6]	Created interactive data visualizations and flowcharts	checkbox, Required 1 activity6___1 In class 2 activity6___2 After-school club 3 activity6___3 On my own 0 activity6___0 Never done this Field Annotation: @NONEOFTHEABOVE=0
44	[activity7]	Created and used variables, loops, and if statements in programs	checkbox, Required 1 activity7___1 In class 2 activity7___2 After-school club 3 activity7___3 On my own

			0 | activity7___0 | Never done this Field Annotation: @NONEOFTHEABOVE=0
45	[activity8]	Section Header: *Please indicate where you have done each of the following (if at all). Select all that apply. If you have done something in multiple places (e.g., In class and On your own), select both.* Learned how to break a problem apart to solve it through algorithms or programming	checkbox, Required 1 | activity8___1 | In class 2 | activity8___2 | After-school club 3 | activity8___3 | On my own 0 | activity8___0 | Never done this Field Annotation: @NONEOFTHEABOVE=0
46	[activity9]	Used procedures or functions to organize code	checkbox, Required 1 | activity9___1 | In class 2 | activity9___2 | After-school club 3 | activity9___3 | On my own 0 | activity9___0 | Never done this Field Annotation: @NONEOFTHEABOVE=0
47	[activity10]	Collaborated with peers to write programs	checkbox, Required 1 | activity10___1 | In class 2 | activity10___2 | After-school club 3 | activity10___3 | On my own 0 | activity10___0 | Never done this Field Annotation: @NONEOFTHEABOVE=0
48	[activity11]	Tested and fixed programs	checkbox, Required 1 | activity11___1 | In class 2 | activity11___2 | After-school club 3 | activity11___3 | On my own 0 | activity11___0 | Never done this

			Field Annotation: @NONEOFTHEABOVE=0
49	[activity12]	Explored how computers and technologies impact individuals and society	checkbox, Required 1 activity12___1 In class 2 activity12___2 After-school club 3 activity12___3 On my own 0 activity12___0 Never done this Field Annotation: @NONEOFTHEABOVE=0
50	[activity13]	Learned about microcontrollers (e.g., micro:bits, Raspberry Pi)	checkbox, Required 1 activity13___1 In class 2 activity13___2 After-school club 3 activity13___3 On my own 0 activity13___0 Never done this Field Annotation: @NONEOFTHEABOVE=0
51	[activity14]	Learned about robotics	checkbox, Required 1 activity14___1 In class 2 activity14___2 After-school club 3 activity14___3 On my own 0 activity14___0 Never done this Field Annotation: @NONEOFTHEABOVE=0
52	[time_2]	Section Header: *20%*	descriptive Field Annotation: @HIDDEN @NOW-SERVER
53	[cs_integrated_number] Show the field ONLY if: [learn_cs] = '1'	In how many non-computer science classes have you learned about computer science? For example, if you learned about computer science in a Math class, that would count as one. Two different Math classes would count as two.	radio, Required 0 None 1 1 2 2 3 3

<table>
<tr><td></td><td></td><td></td><td>
<table>
<tr><td>4</td><td>4</td></tr>
<tr><td>5</td><td>5</td></tr>
<tr><td>6</td><td>6</td></tr>
<tr><td>7</td><td>7</td></tr>
<tr><td>8</td><td>8+</td></tr>
<tr><td>-998</td><td>I'm not sure</td></tr>
<tr><td>-999</td><td>I don't want to say</td></tr>
</table>
Custom alignment: LV
</td></tr>
<tr><td>54</td><td>[cs_integrated_subjects]
Show the field ONLY if: [cs_integrated_number] > '0'</td><td>Select all the subjects where you learned about computer science in class. Choose all that fit.</td><td>checkbox
<table>
<tr><td>1</td><td>cs_integrated_subjects___1</td><td>Math</td></tr>
<tr><td>2</td><td>cs_integrated_subjects___2</td><td>English/Language Arts</td></tr>
<tr><td>3</td><td>cs_integrated_subjects___3</td><td>Science</td></tr>
<tr><td>4</td><td>cs_integrated_subjects___4</td><td>Arts (e.g., Music, Dance)</td></tr>
<tr><td>5</td><td>cs_integrated_subjects___5</td><td>Physical Education</td></tr>
<tr><td>6</td><td>cs_integrated_subjects___6</td><td>Social Studies/History</td></tr>
<tr><td>7</td><td>cs_integrated_subjects___7</td><td>Other subject/class (please specify): {other_csclass}</td></tr>
</table>
Custom alignment: LV</td></tr>
<tr><td>55</td><td>[other_csclass]
Show the field ONLY if: [cs_integrated_number] > '0'</td><td></td><td>text</td></tr>
<tr><td>56</td><td>[extracurricular_description]</td><td>Section Header: 23% Keep up the great work!
In many schools, camps, and organizations, there are clubs and activities for learning about computer science. This could include programming, games, hardware, robotics, and</td><td>descriptive</td></tr>
</table>

		more.Some of these clubs and activities meet only once, while others meet for a whole year or even longer. Some might be part of other clubs, like Girl Scouts or Boy Scouts (Scouts). They can also happen after school, or during summer or winter breaks, and even at special camps.Think for a moment about any of these kinds of activities you might have joined. This section will ask you a few questions about those activities.	
57	[extra1]	Section Header: *Please indicate if you have participated in any of the following before this school year, during this school year, both, or never. If you've done something this year and in a previous year, select both options.* Coding/computer science camp	checkbox, Required 0 extra1___0 Never 1 extra1___1 Before this school year 2 extra1___2 During this school year Field Annotation: @NONEOFTHEABOVE=0
58	[extra2]	Computer Science Club (like Robotics club, coding club, LEGO League)	checkbox, Required 0 extra2___0 Never 1 extra2___1 Before this school year 2 extra2___2 During this school year Field Annotation: @NONEOFTHEABOVE=0
59	[extra3]	Learning Computer Science Online (like Code.org)	checkbox, Required 0 extra3___0 Never 1 extra3___1 Before this school year 2 extra3___2 During this school year Field Annotation: @NONEOFTHEABOVE=0
60	[extra4]	Learning Artificial Intelligence Online (like experience-ai.org)	checkbox, Required 0 extra4___0 Never 1 extra4___1 Before this school year 2 extra4___2 During this school year Field Annotation: @NONEOFTHEABOVE=0
61	[extra5]	Teaching Yourself Computer Science	checkbox, Required

<table>
<tr><td></td><td></td><td></td><td><table><tr><td>0</td><td>extra5___0</td><td>Never</td></tr><tr><td>1</td><td>extra5___1</td><td>Before this school year</td></tr><tr><td>2</td><td>extra5___2</td><td>During this school year</td></tr></table>Field Annotation: @NONEOFTHEABOVE=0</td></tr>
<tr><td>62</td><td>[extra6]</td><td>Computer Science Competitions (like Hackathons or FIRST Robotics)</td><td>checkbox, Required<table><tr><td>0</td><td>extra6___0</td><td>Never</td></tr><tr><td>1</td><td>extra6___1</td><td>Before this school year</td></tr><tr><td>2</td><td>extra6___2</td><td>During this school year</td></tr></table>Field Annotation: @NONEOFTHEABOVE=0</td></tr>
<tr><td>63</td><td>[extra7]</td><td>Teaching Others about Computer Science</td><td>checkbox, Required<table><tr><td>0</td><td>extra7___0</td><td>Never</td></tr><tr><td>1</td><td>extra7___1</td><td>Before this school year</td></tr><tr><td>2</td><td>extra7___2</td><td>During this school year</td></tr></table>Field Annotation: @NONEOFTHEABOVE=0</td></tr>
<tr><td>64</td><td>[extra8]</td><td>Learning from Others about Computer Science (like in Scouts or Girl Scouts)</td><td>checkbox, Required<table><tr><td>0</td><td>extra8___0</td><td>Never</td></tr><tr><td>1</td><td>extra8___1</td><td>Before this school year</td></tr><tr><td>2</td><td>extra8___2</td><td>During this school year</td></tr></table>Field Annotation: @NONEOFTHEABOVE=0</td></tr>
<tr><td>65</td><td>[extra9]</td><td>Other (please write down) {other_ec}</td><td>checkbox<table><tr><td>0</td><td>extra9___0</td><td>Never</td></tr><tr><td>1</td><td>extra9___1</td><td>Before this school year</td></tr><tr><td>2</td><td>extra9___2</td><td>During this school year</td></tr></table></td></tr>
<tr><td>66</td><td>[other_ec]</td><td></td><td>text</td></tr>
<tr><td>67</td><td>[intent_desc]</td><td>Section Header: 25% Thank you for sticking with the survey!</td><td>descriptive
Field Annotation: @NOW-SERVER</td></tr>
</table>

		Indicate how likely you are to do each of the following in the future.	
68	[intent1]	Take an elective (not required) CS course next year.	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure 3 Might not 2 Probably will not 1 Definitely will not Custom alignment: LV
69	[intent2] Show the field ONLY if: ([grade] < 9 AND [grade]<>-999 AND [cs_class] != '1') OR ([grade] < 9 AND [grade]<>-999 AND [learn_cs] = '0')	Take a computer science class before finishing middle school, even if I don't have to.	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure 3 Might not 2 Probably will not 1 Definitely will not Custom alignment: LV
70	[intent3] Show the field ONLY if: [grade]<9 AND [grade]<>-999 AND [cs_class] = '1'	Take another computer science class before finishing middle school, even if I don't have to.	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure 3 Might not 2 Probably will not

			1 Definitely will not Custom alignment: LV
71	[intent4a] Show the field ONLY if: ([grade] <= 8) OR ([grade] > 8 AND [cs_class] != '1') OR ([grade] > 8 AND [learn_cs] = '0')	Take a computer science class before finishing high school, even if I don't have to.	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure 3 Might not 2 Probably will not 1 Definitely will not Custom alignment: LV
72	[intent5] Show the field ONLY if: [grade]>8 AND [cs_class] = '1'	Take another computer science class before finishing high school, even if I don't have to.	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure 3 Might not 2 Probably will not 1 Definitely will not Custom alignment: LV
73	[college]	Attend college/university	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure 3 Might not

			2 Probably will not 1 Definitely will not Custom alignment: LV
74	[intent6] Show the field ONLY if: [college] > '2'	Take a computer science class in college.	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure 3 Might not 2 Probably will not 1 Definitely will not Custom alignment: LV
75	[intent7] Show the field ONLY if: [college] > '2'	Get a college degree in computer science or technology.	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure 3 Might not 2 Probably will not 1 Definitely will not Custom alignment: LV
76	[intent8]	Have a future job in computer science.	radio, Required 7 Definitely will 6 Probably will 5 Might 4 Unsure

			3 Might not 2 Probably will not 1 Definitely will not Custom alignment: LV
77	[academics_intentions_to_persist_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Cs Identity (cs_identity) **Enabled as survey**			
78	[identity_desc]	Section Header: *35%* Please rate each of the following statements using a scale of 1 (Not at all) to 7 (Very much so).	descriptive
79	[cs_identity_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
80	[duration_identity]		calc Calculation: [survey-duration:cs_identity] Field Annotation: @HIDDEN
81	[identity5]	I like to read about and/or watch videos about computer science topics	radio (Matrix), Required 1 1 Not at all 2 2 3 3 4 4 Somewhat 5 5 6 6 7 7 Very much so

82	[identity8]	I can do well on computer science-related tasks (like programming, designing apps)	radio (Matrix), Required 1 1 Not at all 2 2 3 3 4 4 Somewhat 5 5 6 6 7 7 Very much so
83	[identity7]	I see myself as a computer science person.	radio (Matrix), Required 1 1 Not at all 2 2 3 3 4 4 Somewhat 5 5 6 6 7 7 Very much so
84	[identity9]	I know the basic ideas of computer science (like algorithms and simple coding).	radio (Matrix), Required 1 1 Not at all 2 2 3 3 4 4 Somewhat 5 5 6 6 7 7 Very much so
85	[identity10]	Others ask me for help learning computer science.	radio (Matrix), Required 1 1 Not at all 2 2

			3 | 3 4 | 4 Somewhat 5 | 5 6 | 6 7 | 7 Very much so
86	[identity1]	My family thinks that I'm good at computer science.	radio (Matrix), Required 1 | 1 Not at all 2 | 2 3 | 3 4 | 4 Somewhat 5 | 5 6 | 6 7 | 7 Very much so
87	[identity2]	Other students think that I'm good at computer science.	radio (Matrix), Required 1 | 1 Not at all 2 | 2 3 | 3 4 | 4 Somewhat 5 | 5 6 | 6 7 | 7 Very much so
88	[identity3]	At least one of my teachers thinks that I'm good at computer science.	radio (Matrix), Required 1 | 1 Not at all 2 | 2 3 | 3 4 | 4 Somewhat 5 | 5

			6 | 6 7 | 7 Very much so
89	[identity4]	I am interested in computer science topics.	radio (Matrix), Required 1 | 1 Not at all 2 | 2 3 | 3 4 | 4 Somewhat 5 | 5 6 | 6 7 | 7 Very much so
90	[identity6]	Computer science is interesting to me.	radio (Matrix), Required 1 | 1 Not at all 2 | 2 3 | 3 4 | 4 Somewhat 5 | 5 6 | 6 7 | 7 Very much so
91	[identity_11]	I want to learn more about computer science.	radio (Matrix), Required 1 | 1 Not at all 2 | 2 3 | 3 4 | 4 Somewhat 5 | 5 6 | 6 7 | 7 Very much so

Instrument: Goal Affordances Endorsement (goal_affordances_endorsement) **Enabled as survey**

92	[affordances_desc]	Section Header: *40%* Please say how much you agree or disagree with each statement below:	descriptive
93	[duration_affordances]		calc Calculation: [survey-duration:goal_affordances_endorsement] Field Annotation: @HIDDEN
94	[afford_communal6]	I think a job in computer science would let me connect with others.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
95	[afford_communal1]	I think computer science helps make society better.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
96	[afford_agent3]	Computer scientists often get more attention than people in other jobs.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree

			6 6 Agree 7 7 Strongly Agree
97	[afford_communal2]	I think computer science helps people.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
98	[afford_agent4]	Computer scientists often compete with others as part of their job.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
99	[afford_agent5]	I think a job in computer science would let me be my own boss.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree

100	[afford_communal4]	Work that computer scientists do can help meet the needs of the community.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
101	[afford_agent6]	I think a job in computer science would let me get really good at what I do.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
102	[endorsements_desc]	Section Header: *45%* Please say how much you agree or disagree with each statement below:	descriptive Field Annotation: @NOW-SERVER
103	[endor_communal3]	I want to help people who need it with my work.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree

104	[endor_agent3]	I want people to notice me because of my future job.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
105	[endor_communal1]	I want to help make society better.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
106	[endor_agent6]	I want to get really good at what I do in my future job.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
107	[endor_agent4]	I like to compete with others.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree

			3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
108	[endor_agent5]	I want to be my own boss in my future job.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
109	[endor_communal4]	In my job, I want to connect with others.	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree 6 6 Agree 7 7 Strongly Agree
110	[endor_communal2]	I want to help people	radio (Matrix), Required 1 1Strongly Disagree 2 2Disagree 3 3 Somewhat Disagree 4 4 Neutral 5 5 Somewhat Agree

			6 | 6 Agree 7 | 7 Strongly Agree
111	[goal_affordances_endorsement_complete]	Section Header: *Form Status* Complete?	dropdown 0 | Incomplete 1 | Unverified 2 | Complete
Instrument: Value For Cs (value_for_cs) **Enabled as survey**			
112	[value_desc]	Section Header: *55%* Please indicate how much you agree or disagree with the following statements.	descriptive
113	[duration_value]		calc Calculation: [survey-duration:value] Field Annotation: @HIDDEN
114	[value2]	I would learn about computer science even if I did not have to.	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree 4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree 7 | 7 Strongly Agree
115	[value4]	Learning computer science would help me reach my goals.	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree 4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree

			7 | 7 Strongly Agree
116	[value5]	Computer science is important to me.	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree 4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree 7 | 7 Strongly Agree
117	[value6]	I would enjoy using computer science in my job someday.	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree 4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree 7 | 7 Strongly Agree
118	[value_for_cs_complete]	Section Header: *Form Status* Complete?	dropdown 0 | Incomplete 1 | Unverified 2 | Complete
Instrument: Cs Selfefficacy (cs_selfefficacy) **Enabled as survey**			
119	[se_desc]	Section Header: *65%* If you were in a computer science class right now, how confident are you that you could...	descriptive
120	[duration_se]		calc Calculation: [survey-duration:cs_selfefficacy] Field Annotation: @HIDDEN

121	[se1]	Get what the teacher says about computer science	radio (Matrix), Required 1 1Definitely could not 2 2 3 3 4 4Not sure if I could 5 5 6 6 7 7 Definitely could
122	[se2]	Do well on a computer science assignment	radio (Matrix), Required 1 1Definitely could not 2 2 3 3 4 4Not sure if I could 5 5 6 6 7 7 Definitely could
123	[se3]	Do well on a computer science test	radio (Matrix), Required 1 1Definitely could not 2 2 3 3 4 4Not sure if I could 5 5 6 6 7 7 Definitely could
124	[se4]	Use what you learned in a computer science class	radio (Matrix), Required 1 1Definitely could not 2 2

			3 | 3 4 | 4Not sure if I could 5 | 5 6 | 6 7 | 7 Definitely could
125	[cs_selfefficacy_complete]	Section Header: *Form Status* Complete?	dropdown 0 | Incomplete 1 | Unverified 2 | Complete
Instrument: Sense Of Belonging (sense_of_belonging) **Enabled as survey**			
126	[belonging_desc]	Section Header: *70% Great job, keep it up!* If I were in a computer science setting (like in a school class, club, or activity), I would...	descriptive
127	[duration_belonging]		calc Calculation: [survey-duration:sense_of_belonging] Field Annotation: @HIDDEN
128	[belonging1]	feel like I am part of a group of people who like computer science	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree 4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree 7 | 7 Strongly Agree
129	[belonging2]	feel accepted	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree

			4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree 7 | 7 Strongly Agree
130	[belonging3]	feel comfortable	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree 4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree 7 | 7 Strongly Agree
131	[belonging4]	trust others around me to help me learn computer science	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree 4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree 7 | 7 Strongly Agree
132	[belonging5]	enjoy participating	radio (Matrix), Required 1 | 1 Strongly Disagree 2 | 2 Disagree 3 | 3 Somewhat Disagree 4 | 4 Neutral 5 | 5 Somewhat Agree 6 | 6 Agree

			7 | 7 Strongly Agree
133	[belonging6]	I see myself as a computer science person.	radio, Required 7 | Strongly Agree 6 | Agree 5 | Somewhat Agree 4 | Neutral 3 | Somewhat Disagree 2 | Disagree 1 | Strongly Disagree
134	[sense_of_belonging_complete]	Section Header: *Form Status* Complete?	dropdown 0 | Incomplete 1 | Unverified 2 | Complete
Instrument: AI Literacy (ai_literacy) **Enabled as survey**			
135	[ai_description]	Section Header: *73%* AI tools are computer programs that can help people by learning from data. They can: Find patterns in data like pictures, words, or numbers. Help answer questions or solve problems. Give ideas or make things easier-like showing directions, picking videos to watch, or helping with homework. AI tools include ChatGPT, Claude, Gemini, and many others. Remember, we will never share your survey responses with your teachers and you will never get in trouble for your answers.	descriptive
136	[duration_ai]		calc Calculation: [survey-duration:ai_literacy] Field Annotation: @HIDDEN
137	[ai_use]	How often do you usually use Generative AI tools for school?	radio, Required 0 | Never 1 | Less than once a month

			2 Once a month 3 A few times a month (2-3 times) 4 Once a week 5 A few times a week (2-5 times) 6 Daily (once a day) 7 Multiple times a day 8 Prefer not to say Custom alignment: LV
138	[cs_ai]	Indicate how much you agree or disagree with the following statement: Computer science is important to learn because it will help me understand how AI works.	radio, Required 7 Strongly Agree 6 Moderately Agree 5 Slightly Agree 4 Neither agree nor disagree 3 Slightly Disagree 2 Moderately Disagree 1 Strongly Disagree
139	[ai_works]	Indicate how much you agree or disagree with the following statement: I think it's important to know how AI works.	radio, Required 7 Strongly Agree 6 Moderately Agree 5 Slightly Agree 4 Neither agree nor disagree 3 Slightly Disagree 2 Moderately Disagree 1 Strongly Disagree

<table>
<tr><td>140</td><td>[ai_skills1]</td><td>Section Header: 75% Using the scale below, please rate how confident you are that you can:
Check AI content to make sure it's correct and fair before using it.</td><td>radio (Matrix), Required<table><tr><td>1</td><td>1Definitely could not</td></tr><tr><td>2</td><td>2</td></tr><tr><td>3</td><td>3</td></tr><tr><td>4</td><td>4Not sure if I could</td></tr><tr><td>5</td><td>5</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7 Definitely could</td></tr></table></td></tr>
<tr><td>141</td><td>[ai_skills2]</td><td>Use AI to create and refine ideas.</td><td>radio (Matrix), Required<table><tr><td>1</td><td>1Definitely could not</td></tr><tr><td>2</td><td>2</td></tr><tr><td>3</td><td>3</td></tr><tr><td>4</td><td>4Not sure if I could</td></tr><tr><td>5</td><td>5</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7 Definitely could</td></tr></table></td></tr>
<tr><td>142</td><td>[ai_skills3]</td><td>Break problems into steps and use AI to help with each step.</td><td>radio (Matrix), Required<table><tr><td>1</td><td>1Definitely could not</td></tr><tr><td>2</td><td>2</td></tr><tr><td>3</td><td>3</td></tr><tr><td>4</td><td>4Not sure if I could</td></tr><tr><td>5</td><td>5</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>7 Definitely could</td></tr></table></td></tr>
<tr><td>143</td><td>[ai_skills4]</td><td>Make decisions about how AI can affect you, other people, and society.</td><td>radio (Matrix), Required<table><tr><td>1</td><td>1Definitely could not</td></tr><tr><td>2</td><td>2</td></tr></table></td></tr>
</table>

			3 | 3 4 | 4Not sure if I could 5 | 5 6 | 6 7 | 7 Definitely could
144	[ai_skills7]	Decide when and how to use AI by thinking about what it can do, what could go wrong, and what is the right thing to do.	radio (Matrix), Required 1 | 1Definitely could not 2 | 2 3 | 3 4 | 4Not sure if I could 5 | 5 6 | 6 7 | 7 Definitely could
145	[ai_know1]	Section Header: *76% Using the scale below, please rate how confident you are that you could explain each of the following:* How AI finds patterns in data.	radio (Matrix), Required 1 | 1Definitely could not 2 | 2 3 | 3 4 | 4Not sure if I could 5 | 5 6 | 6 7 | 7 Definitely could
146	[ai_know2]	How AI is shaped by the decisions of those who build it and the data it uses.	radio (Matrix), Required 1 | 1Definitely could not 2 | 2 3 | 3 4 | 4Not sure if I could 5 | 5

			6 6 7 7 Definitely could
147	[ai_know3]	What AI can do (like sorting or recognizing things) and what it cannot do (like having feelings).	radio (Matrix), Required 1 1Definitely could not 2 2 3 3 4 4Not sure if I could 5 5 6 6 7 7 Definitely could
148	[ai_know4]	How AI is used in real life (like in jobs, hospitals, or transportation).	radio (Matrix), Required 1 1Definitely could not 2 2 3 3 4 4Not sure if I could 5 5 6 6 7 7 Definitely could
149	[ai_know5]	How AI can be unfair or biased if it is trained with incomplete or unfair data.	radio (Matrix), Required 1 1Definitely could not 2 2 3 3 4 4Not sure if I could 5 5 6 6 7 7 Definitely could

150	[ai_att1]	Section Header: *77% Please rate how much you agree or disagree with these statements:* I think about how using AI may harm me or other people.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
151	[ai_att3]	I try new ideas or different ways to use AI.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
152	[ai_att4]	I use AI by trying something, looking at the results, telling the AI how to make it better, and repeating the steps.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
153	[ai_att5]	I think about how using AI has benefits and risks.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree

			3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
154	[ai_int1]	Section Header: *78% Please rate how much you agree or disagree with these statements:* I want to learn more about how AI works.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
155	[ai_int2]	I like to read about and/or watch videos about how AI works.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
156	[ai_int3]	I am interested in a future job where I help design or build AI tools.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree

			6 Agree 7 Strongly Agree
157	[ai_impact1]	Section Header: *79% Please rate how much you agree or disagree with these statements:* Most jobs will require use of AI.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
158	[ai_impact2]	Many jobs will go away because of AI.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
159	[ai_impact3]	Many new jobs will be created because of AI.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
160	[ai_impact4]	Many computer science jobs will go away because of AI.	radio (Matrix), Required

			1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
161	[ai_impact5]	Many new computer science jobs will be created because of AI.	radio (Matrix), Required 1 Strongly Disagree 2 Disagree 3 Slightly Disagree 4 Neutral 5 Slightly Agree 6 Agree 7 Strongly Agree
162	[ai_literacy_complete]	Section Header: *Form Status* Complete?	dropdown 0 Incomplete 1 Unverified 2 Complete
Instrument: Ctt (ctt) **Enabled as survey**			
163	[duration_ctt]	Section Header: *80%*	calc Calculation: [survey-duration:ctt] Field Annotation: @HIDDEN
164	[ctt_instructions]	Directions All of the following questions have 4 answer options (A, B, C or D). Only one is correct.If you need to zoom in on any question to enlarge it, press "Ctrl and the plus sign (+) at the same time" (or 'Ctrl' and the minus sign (-) to make it smaller).Before starting, you are going to see three examples so you can see the kind of questions that you will be asked	descriptive (Attachment: Symbols.png, Display format: Inline image/PDF)

		and the characters that will appear.The symbols you will see in these items appear below.	
165	[ex1]	Example 1 In the first example you are asked which instructions take 'Pac-Man' to the ghost by the marked path. That is, to take 'Pac-Man' EXACTLY to the square where the ghost is (without going over or stopping short), and strictly following the path marked in yellow (without landing on the orange squares). The correct answer in this example is Option B. Select the "Option B" button below the question. Which instructions take 'Pac-Man' to the ghost by the path marked out?	descriptive (Attachment: ex1.png, Display format: Inline image/PDF)
166	[example1_response]	Select the correct answer below. In this example, the correct answer is B, so select Option B.	radio -1 1 -3 -4 Custom alignment: LH
167	[time_ex1]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER
168	[ex1a1]		descriptive (Attachment: Example 1 - Option A new (2).png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
169	[ex1b]		descriptive (Attachment: Example 1 - Option B new new.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
170	[ex1c]		descriptive (Attachment: Example 1 - Option C new new.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
171	[ex1d]		descriptive (Attachment: Example 1 - Option D new new.png,

			Display format: Inline image/PDF) Field Annotation: @HIDDEN
172	[duration_ex1]	Section Header: *82%*	calc Calculation: datediff([time_ex1],[time_ex2],"s",true) Field Annotation: @HIDDEN
173	[ex2]	Example 2 In the second example you are asked again which instructions take 'Pac-Man' to the ghost by the path marked out. However, in this question the options are presented as groups of instruction blocks rather than arrows.Remember that the question asks you to take 'Pac-Man' EXACTLY to the square where the ghost is (without going over or stopping short), and strictly following the path marked in yellow (without landing on the orange squares). The correct answer in this example is Option C. Select "Option C" below the question. Which instructions take 'Pac-Man' to the ghost by the path marked out?	descriptive (Attachment: ex2.png, Display format: Inline image/PDF)
174	[example2_response]	Select the correct answer (in this example, the correct answer is C)	radio -1 -2 1 -3 Custom alignment: LH
175	[time_ex2]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER
176	[ex2a]		descriptive (Attachment: ex2a.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
177	[ex2b]		descriptive (Attachment: ex2b.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
178	[ex2c]		descriptive (Attachment: ex2c.png, Display format: Inline

			image/PDF) Field Annotation: @HIDDEN
179	[ex2d]		descriptive (Attachment: ex2d.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
180	[duration_ex2]	Section Header: *84%*	calc Calculation: datediff([time_ex2],[time_ex3],"s",true) Field Annotation: @HIDDEN
181	[ex3]	Example 3 In the third example you are asked which instructions the artist should follow to draw the shape on screen. That is, how to MOVE the pencil to draw the shape. The MOVE instruction pushes the pencil whilst drawing, while the JUMP instruction makes the artist jump to another location without drawing. The grey arrow indicates the direction of the first movement of the pencil. The correct answer in this example is Option A. Select "Option A" below the question. Which instructions should the artist follow to draw the shape? The short side measures 50 pixels and the long side measures 100 pixels.	descriptive (Attachment: ex3.png, Display format: Inline image/PDF) Field Annotation: @NOW-SERVER
182	[example3_response]	Select the correct answer (in this example, the correct answer is A)	radio 1 -2 -3 -4 Custom alignment: LH
183	[time_ex3]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER
184	[ex3a1]		descriptive (Attachment: ex3a.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
185	[ex3b]		descriptive (Attachment: ex3b.png, Display format: Inline

			image/PDF) Field Annotation: @HIDDEN
186	[ex3c]		descriptive (Attachment: ex3c.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
187	[ex3d]		descriptive (Attachment: ex3d.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
188	[duration_ex3]	Section Header: *86%*	calc Calculation: datediff([time_ex3],[time_item3],"s",true) Field Annotation: @HIDDEN
189	[item3pt1]	Question 1. The instructions should take 'Pac-Man' to the ghost by the path marked out. In which step of the instructions is there a mistake?	descriptive (Attachment: q3pt1.png, Display format: Inline image/PDF) Field Annotation: @NOW-SERVER
190	[item3pt2]		descriptive (Attachment: q3pt2.png, Display format: Inline image/PDF)
191	[item3_response]	Select the Step that has the mistake.	radio -1 Step A -2 Step B -3 Step C 1 Step D Custom alignment: LV
192	[time_item3]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER
193	[duration_item3]	Section Header: *88%*	calc Calculation: datediff([time_item3],[time_item7],"s",true) Field Annotation: @HIDDEN

194	[item7pt1]	Question 2. The instructions should make the artist draw the following rectangle once (50 pixels wide and 100 pixels high). In which step of the instructions is there a mistake?	descriptive (Attachment: q7.png, Display format: Inline image/PDF) Field Annotation: @NOW-SERVER
195	[item7pt2]		descriptive (Attachment: q7pt2.png, Display format: Inline image/PDF)
196	[item7_response]	Select the Step that has the mistake.	radio 1, Step A -2, Step B -1, Step C -3, Step D Custom alignment: LV
197	[time_item7]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER
198	[duration_item7]	Section Header: *90%*	calc Calculation: datediff([time_item7], [time_item10],"s",true) Field Annotation: @HIDDEN
199	[item10]	Question 3. Which step is missing in the instructions below to take 'Pac-Man' to the ghost by the path marked out?	descriptive (Attachment: q10.png, Display format: Inline image/PDF) Field Annotation: @NOW-SERVER
200	[item10_response]	Select the missing Step.	radio -1 -2 1 -3 Custom alignment: LH
201	[time_item10]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER

202	[q10a]		descriptive (Attachment: q10a.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
203	[q10b]		descriptive (Attachment: q10b.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
204	[q10c]		descriptive (Attachment: q10c.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
205	[q10d]		descriptive (Attachment: q10d.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
206	[duration_item10]	Section Header: *92% Awesome progress, only 4 more questions left!*	calc Calculation: datediff([time_item10], [time_item14],"s",true) Field Annotation: @HIDDEN
207	[item14]	Question 4.Which instructions take 'Pac-Man' to the ghost by the path marked out?	descriptive (Attachment: Q14.png, Display format: Inline image/PDF) Field Annotation: @NOW-SERVER
208	[time_item14]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER
209	[item14_response]	Select the correct answer.	radio 1 ☐ -2 ☐ -1 ☐ -3 ☐ Custom alignment: LH

210	[q14a]		descriptive (Attachment: Q14A.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
211	[q14b]		descriptive (Attachment: Q14B.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
212	[q14c]		descriptive (Attachment: Q14C (1).png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
213	[q14d]		descriptive (Attachment: Q14D.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
214	[duration_item14]	Section Header: *94%*	calc Calculation: datediff([time_item14], [time_item18],"s",true) Field Annotation: @HIDDEN
215	[item18]	Question 5. Which instructions take "Pac-Man" to the ghost by the path marked out?	descriptive (Attachment: Q18.png, Display format: Inline image/PDF) Field Annotation: @NOW-SERVER
216	[item18_response]	Select the correct answer.	radio 1 ☐ -2 ☐ -1 ☐ -3 ☐ Custom alignment: LH
217	[time_item18]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER

218	[a18]		descriptive (Attachment: Q18A.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
219	[b18]		descriptive (Attachment: Q18B.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
220	[c18]		descriptive (Attachment: Q18C.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
221	[d18]		descriptive (Attachment: Q18D.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
222	[duration_item18]	Section Header: *96%*	calc Calculation: datediff([time_item18], [time_item21],"s",true) Field Annotation: @HIDDEN
223	[item21]	Question 6. Which instructions take "Pac-Man" to the strawberries by the path marked out and tell "Pac-Man" to eat all the strawberries shown? The "3" means there are 3 strawberries to be eaten.	descriptive (Attachment: Q21.png, Display format: Inline image/PDF) Field Annotation: @NOW-SERVER
224	[item21_response]	Select the correct answer.	radio 1 ☐ -2 ☐ -1 ☐ -3 ☐ Custom alignment: LH
225	[time_item21]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER

226	[a]		descriptive (Attachment: Q21A.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
227	[b]		descriptive (Attachment: Q21B.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
228	[c]		descriptive (Attachment: Q21C.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
229	[d]		descriptive (Attachment: Q21D.png, Display format: Inline image/PDF) Field Annotation: @HIDDEN
230	[duration_item21]	Section Header: *98%*	calc Calculation: datediff([time_item21], [time_item28],"s",true) Field Annotation: @HIDDEN
231	[item28pt1]	Question 7. The following set of instructions is called 'move and get 4':	descriptive (Attachment: Q7Function.png, Display format: Inline image/PDF)
232	[item28pt2]	What number is missing (???) in the instructions below to take 'Pac-Man' to the strawberries by the path marked out and tell 'Pac-Man' to eat all the strawberries shown?	descriptive (Attachment: q28pt2.png, Display format: Inline image/PDF)
233	[time_item28]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER
234	[item28_response]		radio -1, 3 -2, 4 1, 5 0, 6

			Custom alignment: LV
235	[duration_item28]	Section Header: *99% Just one last question and you're done!*	calc Calculation: datediff([time_item28], [time_item30],"s",true) Field Annotation: @HIDDEN
236	[time_item30]		text (datetime_seconds_ymd) Field Annotation: @HIDDEN @NOW-SERVER
237	[item30pt1]	Question 8. Given the following set of commands called 'checkStrawberries':	descriptive (Attachment: q30pt1.png, Display format: Inline image/PDF)
238	[item30pt2]	What is missing in the following sequence to get 'Pac-Man' along the indicated path eating the indicated number of strawberries? In the squares with strawberries, there can be 1, 2, or 3 strawberries.	descriptive (Attachment: q30pt2.png, Display format: Inline image/PDF) Field Annotation: @NOW-SERVER
239	[item30_response]	Select the correct answer.	radio 1 | 2 -2 | 3 -1 | 4 -3 | 5 Custom alignment: LV
240	[duration_item30]		calc Calculation: datediff([time_item30], [survey-time-completed:ctt:value], "s", true) Field Annotation: @HIDDEN
241	[ctt_complete]	Section Header: *Form Status* Complete?	dropdown 0 | Incomplete 1 | Unverified 2 | Complete