

APPENDIX A  
SURVEY INSTRUMENT

**Computing knowledge and skills**

<i>Question or statement</i>	<i>Answer options</i>	<i>Score</i>
<i>During (high school/university)*, how good would you say you were at the following subjects:</i> Maths	Did not take this subject Below classroom average Classroom average Above classroom average	0 1 2 3
<i>During (high school/university)*, how good would you say you were at the following subjects:</i> Computer science or computing-related subject	Did not take this subject Below classroom average Classroom average Above classroom average	0 3 6 9
<i>During high school (or between age 12-18), how often would you do the following things?</i> Physical computing (e.g. Raspberry Pi, Arduino, Micro:Bit, LEGO mindstorms, etc.) Programming	Never or rarely (once in a year) Occasionally (few times a year) Sometimes (once every month) Regularly (once every week) Always (every day or every other day)	0 1 2 3 4
<i>How often do you do the following things when NOT studying at university?</i> Physical computing (e.g. Raspberry Pi, Arduino, Micro:Bit, LEGO mindstorms, etc.) Programming		
<i>How much do you agree with the following statements?</i> I learn interesting things in computer science classes at university It is useful to know about computers in my everyday life I am confident giving answers in computer science lessons I know how to use computing to solve problems I know quite a lot about computing	Strongly disagree Disagree Neither agree nor disagree Agree Strongly agree	-2 -1 0 1 2
<i>How much do you agree with the following statements?</i> I don't think I am clever enough to study computing at university	Strongly disagree Disagree Neither agree nor disagree Agree Strongly agree	2 1 0 -1 -2
<b>Computing goals and career aspirations</b>		
<i>Question or statement</i>	<i>Answer options</i>	<i>Score</i>
<i>How much do you agree with the following statements?</i> After graduation, I would like to have a job that involves computing Computing is useful to achieve my goals in life A computer science or computing-related qualification can help you get many different types of jobs It is important to study computing even if I don't want to work in a computing-related job	Strongly disagree Disagree Neither agree nor disagree Agree Strongly agree	-2 -1 0 1 2
After your university studies, what profession would you like to have? Type "don't know" if you need to.	Profession not related to computing Computing-related profession	0 5
Do you think you might like to work in a computer science or computing-related job in the future?	No Yes	0 2
You said you might like to have a computer science or computing-related job in the future. Can you tell us why this might be the case?	Opportunity to help others Well respected/high status Opportunities to make exciting new discoveries Secure Interesting Lots of different types of jobs available Well paid Good work/life balance Personally satisfying Other	0.5 for each item

\*Question was asked separately for high school and university

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**Computing support from family and friends**


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<i>Question or statement</i>	<i>Answer options</i>	<i>Score</i>
What did your parent(s) and/or carer(s) study at university?	Non-computing related degree Computing-related degree	0 for each parent/carer 1 for each parent/carer
What are the professions of your parents and or carers? If retired or deceased, please mention the latest profession that applied	Non-computing related profession Computing-related profession	0 for each parent/carer 1 for each parent/carer
<i>How much do you agree with the following statements?</i> <i>One or both of my parents and/or carers:</i> Has introduced me to computers or computing-related concepts at home	Strongly disagree Disagree Neither disagree nor agree Agree Strongly agree	-2 -1 0 1 2
<i>One or both of my parents and/or carers:</i> Has explained to me that computing is useful for my future		
When you are NOT studying, how often do you talk about computer science or computing with someone?	Never or rarely (once in a year) Occasionally (few times a year) Sometimes (once every month) Regularly (once every week) Always (every day or every other day)	0 1 2 3 4
Who do you talk with about computer science or computing-related subjects?	Friends Parents and/or carers Other family members or relatives Other	1 for each item
Do you know anyone who works in a computer science-related field or in a job that uses computing?		

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**Computing attitudes and values**


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<i>Question or statement</i>	<i>Answer options</i>	<i>Score</i>
<i>How much do you agree with the following statements?</i> Getting young people to understand computers is important for our society Computer science and computing creates new jobs so more people can have work	Strongly disagree Disagree Neither disagree nor agree Agree Strongly agree	-2 -1 0 1 2

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**Computing media consumption**


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<i>Question or statement</i>	<i>Answer options</i>	<i>Score</i>
<i>During high school (or between age 12-18), how often would you do the following things?</i> Playing videogames Watching streamers or YouTubers play videogames and/or do other computing	Never or rarely (once in a year) Occasionally (few times a year) Sometimes (once every month) Regularly (once every week) Always (every day or every other day)	0 1 2 3 4
<i>How often do you do the following things when NOT studying at university?</i> Playing videogames Watching streamers or YouTubers play videogames and/or do other computing		

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**Participation in computing activities**


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<i>Question or statement</i>	<i>Answer options</i>	<i>Score</i>
<i>During high school (or between age 12-18), how often would you do the following things?</i> Going to informal computing activities (e.g. coding clubs, makerspaces, hackathons, gaming activities, etc.)	Never or rarely (once in a year) Occasionally (few times a year) Sometimes (once every month) Regularly (once every week) Always (every day or every other day)	0 1 2 3 4
<i>How often do you do the following things when NOT studying at university?</i> Going to informal computing activities (e.g. coding clubs, makerspaces, hackathons, gaming activities, etc.)		

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