IEA International Computer and Information Literacy Study

Student Questionnaire for the 2018 U.S. Main Study (Final)

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INTRODUCTION TO THE QUESTIONNAIRE FOR STUDENTS

This questionnaire is about Information and Communication Technology (ICT). In this questionnaire, ICT can refer to:

- desktop computers

- notebook or laptop computers

- netbook computers

- tablet devices

- smartphones, except when being used for talk and text.

In this questionnaire, you will find questions about:

- You, your home, and your family

- Where and how often you use ICT

- What you use ICT for

- Your views about the use of ICT.

Please read each question carefully and answer as accurately as you can. In this questionnaire, you will mostly answer by clicking on a button. You can change your responses at any time until you have clicked on 'I've finished' at the end of the questionnaire.

There are also a few questions where you will need to write a short response.

In this questionnaire, there are no right or wrong answers. Your answers should be the ones that apply to you.

You may ask for help if you do not understand something or if you are not sure how to answer a question.

The National Center for Education Statistics (NCES) is authorized to collect information from this questionnaire by the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543). You do not have to provide the information requested. However, the information you provide will help the U.S. Department of Education's ongoing efforts to understand better how the educational system in the United States compares to that in other countries. There are no penalties should you choose not to participate in this study. All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151). Your responses will be combined with those from other participants to produce summary statistics and reports.

Thank you.

ABOUT YOU

Q1   **When were you born?**

     (Scroll down to answer both parts to this question)

January - December (Month)   📋

1997 – 2008 (Year)   📋

Q2   **Are you a girl or a boy?**

       Girl   Boy

       ☐   ☐

Q3   **Are you Hispanic or Latino?**

     (Please mark only one choice)

Yes, I am Hispanic or Latino   ☐

No, I am not Hispanic or Latino   ☐

Q4   **Which of the following best describes you?**
(Please mark all choices that apply)

White   ☐

Black or African American   ☐

Asian   ☐

American Indian or Alaska Native   ☐

Native Hawaiian or other Pacific Islander   ☐

Q5   What is the highest level of education you expect to complete?

(Please mark only one choice)

Bachelor's degree (4-year college program) OR Master's degree or professional degree (MD, DDS, lawyer, minister) OR Doctorate (Ph.D. or EdD)   ☐

Associate's degree (2-year college program)   ☐

High school graduate   ☐

Some high school   ☐

Less than high school   ☐

YOUR HOME AND YOUR FAMILY

In this section you will be asked some questions about your family and your home.

Some of these questions will be about home and your parents or guardians who look after you — for example, step-parents or foster-parents. Select one parent or guardian as parent or guardian 1 and the other as parent or guardian 2.

If you share your time with more than one set of parents or guardians, please answer the following questions for those parents/guardians with whom you spend the most time. ***If you share your time only with one parent, please answer only the following questions for this parent.***

Q6   In what country were you and your parents born?
*(Please mark only one choice in each **column**)*

	You	Parent or guardian 1	Parent or guardian 2
United States	☐	☐	☐
Another country	☐	☐	☐

Q7   What language do you speak at home most of the time?
(Please mark only one choice)

English	☐
Spanish	☐
Another language	☐

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Q8   **Does your parent or guardian 1 work in a paid job?**

Yes   ☐   (**Note:** Student will be directed to Q10a and Q11a)

No   ☐   (**Note:** Student will be directed to Q10b and Q11b)

Q9a   **What is your parent or guardian 1's main job?**
(for example, school teacher, cook, sales manager)
(Please write in the job title)

Q10a   **What does your parent or guardian 1 do in his/her main job?**
(for example, teaches high school students, helps prepare meals in a restaurant, manages a sales team)
(Please use a sentence to describe the kind of work he/she does in that job)

Q9b   **What was your parent or guardian 1's last main job?**
(for example, school teacher, cook, sales manager)
Please tell us his/her last main job. If he/she has never had a paid job, please write what he/she is currently doing.

(Please write in the job title)

Q10b   **What did your parent or guardian 1 do in his/her last main job?**
(for example, taught high school students, helped prepare meals in a restaurant, managed a sales team)
(Please use a sentence to describe the kind of work he/she did in that job or what he/she is currently doing if he/she has never had a paid job)

Q11   **What is the highest level of education completed by your parent or guardian 1?**

If you are not sure which box to choose, please ask the test administrator for help.

(Please mark only one choice)

Bachelor's degree (4-year college program) OR Master's degree or professional degree (MD, DDS, lawyer, minister) OR Doctorate (Ph.D., or EdD)	☐
Associate's degree (2-year college program)	☐
High school graduate	☐
Some high school	☐
Less than high school	☐

Q12   **Does your parent or guardian 2 work in a paid job?**

Yes   ☐   (**Note:** Student will be directed to Q14a and Q15a)

No   ☐   (**Note:** Student will be directed to Q14b and Q15b)

Q13a   **What is your parent or guardian 2's main job?**
(for example, school teacher, cook, sales manager)
(Please write in the job title)

Q14a   **What does your parent or guardian 2 do in his/her main job?**
(for example, teaches high school students, helps prepare meals in a restaurant, manages a sales team)
(Please use a sentence to describe the kind of work he/she does in that job)

Q13b   **What was your parent or guardian 2's last main job?**
(for example, school teacher, cook, sales manager)
Please tell us his/her last main job. If he/she has never had a paid job, please write what he/she is currently doing.

(Please write in the job title)

Q14b   **What did your parent or guardian 2 do in his/her last main job?**
(for example, taught high school students, helped prepare meals in a restaurant, managed a sales team)
(Please use a sentence to describe the kind of work he/she did in that job or what he/she is currently doing if he/she has never had a paid job)

Q15   **What is the highest level of education completed by your parent or guardian 2?**
If you are not sure which box to choose, please ask the test administrator for help.

(Please mark only one choice)

Bachelor's degree (4-year college program) OR Master's degree or professional degree (MD, DDS, lawyer, minister) OR Doctorate (Ph.D. or EdD)	☐
Associate's degree (2-year college program)	☐
High school graduate	☐
Some high school	☐
Less than high school	☐

Q16   **About how many books are there in your home?**

Do not count magazines, newspapers, comic books or your schoolbooks.

(Please mark only one choice)

None or very few (0–10 books)	☐
Enough to fill one shelf (11–25 books)	☐
Enough to fill one bookcase (26–100 books)	☐
Enough to fill two bookcases (101–200 books)	☐
Enough to fill three or more bookcases (more than 200 books)	☐

Q17   **How many of the following ICT devices are currently used in your home?**

(Please mark one choice in each row)

		None	One	Two	Three or more
a)	Desktop or laptop computers	☐	☐	☐	☐
b)	Tablet devices or e-readers (e.g., iPad, Surface Pro, Kindle)	☐	☐	☐	☐

YOUR USE OF ICT

Q18   **How long have you been using each of the following types of ICT devices?**

(Please mark one choice in each row)

	Never or less than one year	*At least one year but less than three years*	*At least three years but less than five years*	*At least five years but less than seven years*	*Seven years or more*
a) Desktop or laptop computers	☐	☐	☐	☐	☐
b) Tablet devices or e-readers (e.g., iPad, Surface Pro, Kindle)	☐	☐	☐	☐	☐
c) Smartphones except for using text and calling	☐	☐	☐	☐	☐

Q19 Who <u>mainly</u> taught you how to do the following activities?

(Please mark one choice in each row)

	My teachers	My family	My friends	I taught myself	I have never learned this
a) Communicate over the Internet	☐	☐	☐	☐	☐
b) Create or edit digital documents	☐	☐	☐	☐	☐
c) Create or edit digital presentations	☐	☐	☐	☐	☐
d) Change settings on an ICT device	☐	☐	☐	☐	☐
e) Find information on the Internet	☐	☐	☐	☐	☐
f) Use programs and files in a computer network	☐	☐	☐	☐	☐

Q20 **How <u>often</u> do you use ICT in these places?**

Please do not count the use of smartphones when making phone calls or writing text messages.

(Please mark one choice in each row)

	Never	Less than once a month	At least once a month but not every week	At least once a week but not every day	Every day
a) At school for school-related purposes	☐	☐	☐	☐	☐
b) At school for other purposes	☐	☐	☐	☐	☐
c) Outside of school for school-related purposes	☐	☐	☐	☐	☐
d) Outside of school for other purposes	☐	☐	☐	☐	☐

Q21 How often do you use ICT for each of the following activities?

(Please mark one choice in each row)

	Never	Less than once a month	At least once a month but not every week	At least once a week but not every day	Every day
a) Write or edit documents	☐	☐	☐	☐	☐
b) Use a spreadsheet to do calculations, store data or plot graphs e.g., using Microsoft Excel)	☐	☐	☐	☐	☐
c) Create a simple "slideshow" presentation (e.g., using Microsoft PowerPoint)	☐	☐	☐	☐	☐
d) Record or edit videos	☐	☐	☐	☐	☐
e) Write computer programs, scripts or apps (e.g., using Scratch, Logo, VBA, Java)	☐	☐	☐	☐	☐
f) Use drawing, painting or graphics software or apps	☐	☐	☐	☐	☐
g) Produce or edit music	☐	☐	☐	☐	☐
h) Build or edit a webpage	☐	☐	☐	☐	☐

Q22 **How often do you use ICT to do each of the following communication activities?**

(Please mark one choice in each row)

	Never	Less than once a month	At least once a month but not every week	At least once a week but not every day	Every day
a) Share news about current events on social media	☐	☐	☐	☐	☐
b) Communicate with friends, family, or other people using instant messaging, voice or video chat (e.g., Skype, FaceTime, WhatsApp, Viber)	☐	☐	☐	☐	☐
c) Send texts or instant messages to friends, family, or other people	☐	☐	☐	☐	☐
d) Write posts and updates about what happens in your life on social media	☐	☐	☐	☐	☐
e) Ask questions on forums or Q&A, question and answer websites	☐	☐	☐	☐	☐
f) Answer other peoples' questions on forums or Q&A, question and answer websites	☐	☐	☐	☐	☐
g) Write posts for your own blog (e.g., WordPress, Tumblr, Blogger)	☐	☐	☐	☐	☐
h) Post images or video in social networks or online communities (e.g., Facebook, Instagram or YouTube)	☐	☐	☐	☐	☐
i) Watch videos or images that other people have posted online	☐	☐	☐	☐	☐
j) Send or forward information about events or activities to other people	☐	☐	☐	☐	☐

Q23 **How often do you use ICT to do each of the following leisure activities?**

(Please mark one choice in each row)

	Never	Less than once a month	At least once a month but not every week	At least once a week but not every day	Every day
a) Search the Internet to find information about places to go or activities to do	☐	☐	☐	☐	☐
b) Read reviews on the Internet of things you might want to buy	☐	☐	☐	☐	☐
c) Read news stories on the Internet	☐	☐	☐	☐	☐
d) Search for online information about things you are interested in	☐	☐	☐	☐	☐
e) Use websites, forums, or online videos to find out how to do something	☐	☐	☐	☐	☐
f) Play games	☐	☐	☐	☐	☐
g) Listen to downloaded or streamed music	☐	☐	☐	☐	☐
h) Watch downloaded or streamed TV shows or movies	☐	☐	☐	☐	☐

USING ICT FOR SCHOOL

Q24   **How <u>often</u> do you use ICT for the following school-related purposes?**
(Please mark one choice in each row)

	Never	Less than once a month	At least once a month but not every week	At least once a week but not every school day	Every school day
a) Prepare reports or essays	☐	☐	☐	☐	☐
b) Prepare presentations	☐	☐	☐	☐	☐
c) Work online with other students	☐	☐	☐	☐	☐
d) Complete worksheets or exercises	☐	☐	☐	☐	☐
e) Organize your time and work	☐	☐	☐	☐	☐
f) Take tests	☐	☐	☐	☐	☐
g) Use software or applications to learn skills or a subject (e.g., mathematics tutoring software, language learning software)	☐	☐	☐	☐	☐
h) Use the Internet to do research	☐	☐	☐	☐	☐
i) Use coding software to complete assignments (e.g., in Scratch, Logo, VBA, Java)	☐	☐	☐	☐	☐
j) Make video or audio productions	☐	☐	☐	☐	☐

Q25 **At school, how <u>often</u> do you use ICT during lessons in the following subjects or subject areas?**
(Please mark one choice in each row)

	I don't study this subject / these subjects	Never	In some lessons	In most lessons	In every or almost every lesson
a) English Language Arts	☐	☐	☐	☐	☐
b) Spanish or other foreign language	☐	☐	☐	☐	☐
c) Mathematics	☐	☐	☐	☐	☐
d) Sciences (general science and/or physics, chemistry, biology, geology, earth sciences)	☐	☐	☐	☐	☐
e) Human sciences/Humanities /Social studies (e.g., history, geography, civics, law, economics)	☐	☐	☐	☐	☐
f) Creative arts (e.g., visual arts, music, dance, drama)	☐	☐	☐	☐	☐
g) Information technology, computer science or similar subject	☐	☐	☐	☐	☐
h) Practical or vocational (e.g., mechanics and repair, healthcare occupations, construction trades)	☐	☐	☐	☐	☐
i) Other (e.g., moral/ethics, physical education, personal and social development)	☐	☐	☐	☐	☐

Q26 **When studying throughout this school year, how often did you use the following tools during class?**

(*Please mark one choice in each row*)

	Never	In some lessons	In most lessons	In every or almost every lesson
a) Tutorial software or practice programs	☐	☐	☐	☐
b) Word-processing software (e.g., Microsoft Word)	☐	☐	☐	☐
c) Presentation software (e.g., Microsoft PowerPoint)	☐	☐	☐	☐
d) Spreadsheets (e.g., Microsoft Excel)	☐	☐	☐	☐
e) Multimedia production tools (e.g., media capture and editing, web production)	☐	☐	☐	☐
f) Concept mapping software (e.g., Inspiration, Webspiration)	☐	☐	☐	☐
g) Tools that capture real-world data (e.g., speed, temperature) digitally for analysis	☐	☐	☐	☐
h) Simulations and modelling software	☐	☐	☐	☐
i) Computer-based information resources (e.g., websites, wikis, encyclopedia)	☐	☐	☐	☐
j) Interactive digital learning resources (e.g., learning games or applications)	☐	☐	☐	☐
k) Graphing or drawing software	☐	☐	☐	☐

Q27 At school, to what extent have you learned how to do the following tasks?

(Please mark one choice in each row)

	To a large extent	To a moderate extent	To a small extent	Not at all
a) Provide references to Internet sources	☐	☐	☐	☐
b) Search for information using ICT	☐	☐	☐	☐
c) Present information for a given audience or purpose using ICT	☐	☐	☐	☐
d) Work out whether to trust information from the Internet	☐	☐	☐	☐
e) Decide what information obtained from the Internet is relevant to include in school work	☐	☐	☐	☐
f) Organize information obtained from Internet sources	☐	☐	☐	☐
g) Decide where to look for information on the Internet about an unfamiliar topic	☐	☐	☐	☐
h) Use ICT to collaborate with others	☐	☐	☐	☐

Q28 At school, have you learned about the importance of the following topics?

(Please mark one choice in each row)

	Yes	No
a) To change passwords regularly (e.g., network account, email, social media)	☐	☐
b) To check the origin of emails before opening attachments	☐	☐
c) To log out of a shared computer at the end of a session	☐	☐
d) To share information on social media responsibly	☐	☐

YOUR THOUGHTS ABOUT USING AND LEARNING ABOUT ICT

Q29 **How well can you do each of these tasks when using ICT?**
(Please mark one choice in each row)

	I know how to do this	I have never done this but I could work out how to do this	I do not think I could do this
a) Edit digital photographs or other graphic images	☐	☐	☐
b) Create a database (e.g., using Microsoft Access)	☐	☐	☐
c) Write or edit text for a school assignment	☐	☐	☐
d) Search for and find relevant information for a school project on the Internet	☐	☐	☐
e) Build or edit a webpage	☐	☐	☐
f) Change the settings on your device to improve the way it operates	☐	☐	☐
g) Create a computer program, macro, or app (e.g., in Scratch, Logo, VBA, Java)	☐	☐	☐
h) Set up a local area network of computers or other ICT	☐	☐	☐
i) Create a multi-media presentation (with sound, pictures, or video)	☐	☐	☐
j) Upload text, images, or video to an online profile	☐	☐	☐
k) Insert an image into a document or message	☐	☐	☐
l) Install a program or app	☐	☐	☐
m) Judge whether you can trust information you find on the Internet	☐	☐	☐

Q30   **How much do you agree or disagree with the following statements about ICT?**

(Please mark one choice in each row)

	Strongly agree	Agree	Disagree	Strongly disagree
a) Advances in ICT usually improve people's living conditions.	☐	☐	☐	☐
b) ICT helps us to understand the world better.	☐	☐	☐	☐
c) Using ICT makes people more isolated in society.	☐	☐	☐	☐
d) With more ICT there will be fewer jobs.	☐	☐	☐	☐
e) People spend far too much time using ICT.	☐	☐	☐	☐
f) ICT is valuable to society.	☐	☐	☐	☐
g) Advances in ICT bring many social benefits.	☐	☐	☐	☐
h) Using ICT may be dangerous for people's health.	☐	☐	☐	☐
i) I would like to study subjects related to ICT after high school	☐	☐	☐	☐
j) I hope to find a job that involves advanced ICT	☐	☐	☐	☐
k) Learning how to use ICT applications will help me to do the work I am interested in	☐	☐	☐	☐

Q31 **When studying during the current school year, to what extent have you been taught how to do the following tasks?**

(Please mark one choice in each row)

	To a large extent	To a moderate extent	To a small extent	Not at all
a) To display information in different ways	☐	☐	☐	☐
b) To break a complex process into smaller parts	☐	☐	☐	☐
c) To understand diagrams that describe or show real-world problems	☐	☐	☐	☐
d) To plan tasks by setting out the steps needed to complete them	☐	☐	☐	☐
e) To use tools to make diagrams that help solve problems	☐	☐	☐	☐
f) To use simulations to help understand or solve real world problems	☐	☐	☐	☐
g) To make flow diagrams to show the different parts of a process	☐	☐	☐	☐
h) To record and evaluate data to understand and solve a problem	☐	☐	☐	☐
i) To use real-world data to review and revise solutions to problems	☐	☐	☐	☐

Q32 **Do you study computing, computer science, information technology, informatics or similar in the current school year?**

Yes ☐

No ☐

THANK YOU FOR YOUR TIME AND EFFORT IN COMPLETING THE QUESTIONNAIRE