INTERNATIONAL COMPUTER AND INFORMATION LITERACY STUDY (ICILS 2018) FIELD TEST AND RECRUITMENT FOR MAIN STUDY

REQUEST FOR OMB CLEARANCE
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APPENDIX B: ICILS U.S. Field Test Questionnaires

Submitted by:

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Washington, DC

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The provided here versions of the ICILS 2018 field test questionnaires contain the finalized international versions of the questionnaires along with the U.S. adaptations that have been approved by the IEA. The confidentiality pledge has been updated throughout to reflect the addition of the Cybersecurity Enhancement Act of 2015 provision.

The main study questionnaires will be subsets of the field test questionnaires. The instruments included here are:

IEA International Computer and Information Literacy Study

Principal Questionnaire for the 2017 U.S. Field Test

Confidential to ICILS 2018
Do not cite or quote

The Australian Council *for* Educational Research

INTRODUCTION TO THE SCHOOL PRINCIPAL QUESTIONNAIRE

Your school has agreed to participate in the 2017 Field Test for the International Computer and Information Literacy Study (ICILS). ICILS is an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). The purpose of ICILS is to examine across different countries the extent to which young people in eighth grade have developed computer and information literacy, which is defined as the ability to use Information and Communications Technology (ICT) to investigate, create, and communicate with others at home, school, the workplace and in society.

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.

This questionnaire is addressed to school principals who are asked to provide information about their schools. Since your school has been selected as part of a nationwide sample, your responses are very important in helping to evaluate the questions as relevant to describing eighth-grade education in the United States. Some of the questions may require that you look up school records, so you may wish to arrange for the assistance of another staff member to help provide this information.

In this questionnaire you will find questions about you and your use of ICT; characteristics of your school; the application of ICT in teaching and learning at your school; and aspects of the management of ICT in your school. Since ICILS is an international study and all countries are using the same questionnaire, you may find that some of the questions seem unusual or are not entirely relevant to you or schools in the United States. Nevertheless, it is important that you do your best to answer all the questions so comparisons can be made across countries in the study. Please answer the questions with reference to your school as a whole. For some of the questions you are asked to answer referring only to eighth-grade students. Please look at the instructions given in each of the questions.

It is estimated that you will need about 15 minutes to complete the questionnaire. **We appreciate the time and effort this takes and thank you for your cooperation and contribution.**
The National Center for Education Statistics (NCES) is authorized to collection information from the questionnaire under the Education Science 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. Your answers 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 and Your Use of ICT

Q1   Are you female or male?

Female ☐   Male ☐

Q2a How often do you use ICT for 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)	Search for information on the Internet or a network maintained by education authorities for its schools	☐	☐	☐	☐	☐
b)	Provide information about an educational issue through a website	☐	☐	☐	☐	☐
c)	Look up records in a database (e.g. in a student information system)	☐	☐	☐	☐	☐
d)	Maintain, organize and analyze data (e.g. with a spreadsheet or database)	☐	☐	☐	☐	☐
e)	Prepare presentations	☐	☐	☐	☐	☐
f)	Communicate with teachers in your school	☐	☐	☐	☐	☐
g)	Communicate with education authorities	☐	☐	☐	☐	☐
h)	Communicate with principals and senior staff in other schools	☐	☐	☐	☐	☐
i)	Communicate with parents	☐	☐	☐	☐	☐
j)	Work with a learning management system (e.g. Moodle, Blackboard)	☐	☐	☐	☐	☐
k)	Use social media to communicate with the wider community about school-related activities	☐	☐	☐	☐	☐

Q2b   If you use ICT for any other school-related activities at least once a month, please list them.

_____

YOUR SCHOOL

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Q3   What is the total number of boys and girls in your school as of April 3, 2017?
(Please record a whole number. Record 0 (zero), if none.)

| | | | | Total number of girls | | | | | Total number of boys

Q4   What is the total number of boys and girls in eighth grade as of April 3, 2017?
(Please record a whole number. Record 0 (zero), if none.)

| | | | | Total number of girls | | | | | Total number of boys

Q5   **(a)   What is the lowest (youngest) grade that is taught at your school?**

(Please mark only one choice)

Pre-Kindergarten ☐

Kindergarten ☐

First grade ☐

Second grade ☐

Third grade ☐

Fourth grade ☐

Fifth grade ☐

Sixth grade ☐

Seventh grade ☐

Eighth grade ☐

(b)   What is the highest (oldest) grade that is taught at your school?

(Please mark only one choice)

Eighth grade ☐

Ninth grade ☐

Tenth grade ☐

Eleventh grade ☐

Twelfth grade ☐

Q6   **What are the total numbers of full-time and part-time teachers in your school?**

A full-time teacher is employed on a regular basis as a teacher for at least 90% of full-time hours for the full school year. All other teachers should be considered part-time.

(Please record a whole number for each. Record 0 (zero), if none.)

a) ☐☐☐☐   Total number of full-time teachers

b) ☐☐☐☐   Total number of part-time teachers

Q7 **Which of the following best describes where your school is located?**

(*Please mark only one choice*)

In a community with fewer than 3,000 people ☐

In a town with at least 3,000 but less than 15,000 people ☐

In a town with at least 15,000 but less than 100,000 people ☐

In a city with at least 100,000 but less than 1,000,000 people ☐

In a city with 1,000,000 or more people ☐

Q8a **Is this school a public or a private school?**

(Please mark only one choice)

A public school
(This is a school <u>managed</u> directly or indirectly by a public education authority, government agency, or governing board, appointed by government or elected by public franchise.) ☐

A private school
(This is a school <u>managed</u> directly or indirectly by a non-government organisation; for example, a church, trade union, business, or other private institution.) ☐

Q8b **Approximately what percentage of students in your school have the following backgrounds?**
(Please mark one choice in each row)

	0 to 10%	11 to 25%	26 to 50%	More than 50%

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a)   Come from economically affluent homes   ☐   ☐   ☐   ☐

b)   Come from economically disadvantaged homes   ☐   ☐   ☐   ☐

ICT AND TEACHING IN YOUR SCHOOL

Q9 **In your opinion, how important is each of the following outcomes of education?**

(Please mark one choice in each row)

		Very important	*Quite important*	*Somewhat important*	*Not important*
a)	The development of students' basic computer skills (e.g. internet use, email, word processing, presentation software)	☐	☐	☐	☐
b)	The development of students' skills in using ICT for collaboration with others	☐	☐	☐	☐
c)	The use of ICT for facilitating students' responsibility for their own learning	☐	☐	☐	☐
d)	The use of ICT to augment and improve students' learning	☐	☐	☐	☐
e)	The development of students' understanding and skills relating to safe and appropriate use of ICT	☐	☐	☐	☐
f)	The development of students' proficiency in accessing and using information with ICT	☐	☐	☐	☐
g)	The development of students' ability to write apps or programs	☐	☐	☐	☐

Q10 Are there procedures in place to monitor whether teachers at this school use ICT to achieve the following learning outcomes?
(Please select all that apply for each row)

		Yes, by reviewing lesson plans	*Yes, through teacher self-evaluation*	*Yes, through observing classrooms*	*Yes, by other means*	*No, this is not monitored*
a)	The development of students' basic computer skills (e.g. internet use, email, word processing, presentation software)	☐	☐	☐	☐	☐
b)	The development of students' skills in using ICT for collaboration with others	☐	☐	☐	☐	☐
c)	The use of ICT for facilitating students' responsibility for their own learning	☐	☐	☐	☐	☐
d)	The use of ICT to augment and improve students' learning	☐	☐	☐	☐	☐
e)	The development of students' understanding and skills relating to safe and appropriate use of ICT	☐	☐	☐	☐	☐
f)	The development of students' proficiency in accessing and using information with ICT	☐	☐	☐	☐	☐
g)	The development of students' ability to write apps or programs	☐	☐	☐	☐	☐

Q11 **Are teachers in your school expected to acquire knowledge and skills in each of the following activities?**

(Please mark one choice in each row)

		Expected and required	Expected but not required	Not expected
a)	Integrate Web-based learning in their instructional practice	☐	☐	☐
b)	Use ICT-based forms of student assessment	☐	☐	☐
c)	Use ICT for monitoring student progress	☐	☐	☐
d)	Collaborate with other teachers via ICT	☐	☐	☐
e)	Communicate with parents via ICT	☐	☐	☐
f)	Communicate with students via ICT	☐	☐	☐
g)	Integrate ICT into teaching and learning	☐	☐	☐
h)	Use subject-specific digital learning resources (e.g. tutorials, simulation)	☐	☐	☐
i)	Use e-portfolios for assessment	☐	☐	☐
j)	Use ICT to develop authentic (real-life) assignments for students	☐	☐	☐
k)	Assess students' computer and information literacy	☐	☐	☐

MANAGEMENT OF ICT IN YOUR SCHOOL

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Q12 **Who has the main responsibility for making decisions about each of the following aspects of ICT in this school?**

(Please mark one choice in each row)

		School district or relevant education authority	School boards/ councils	School principal or deputy	Heads of department	ICT coordinator	Information specialist or librarian	Individual teachers	No one
a)	The purchase/supply of ICT equipment	☐	☐	☐	☐	☐	☐	☐	☐
b)	The choice of non-digital learning materials	☐	☐	☐	☐	☐	☐	☐	☐
c)	The choice of digital learning materials	☐	☐	☐	☐	☐	☐	☐	☐
d)	The selection of a learning management system	☐	☐	☐	☐	☐	☐	☐	☐
e)	The maintenance of ICT equipment	☐	☐	☐	☐	☐	☐	☐	☐
f)	Decisions about whether ICT is used in teaching	☐	☐	☐	☐	☐	☐	☐	☐
g)	The implementation of ICT-based approaches in teaching	☐	☐	☐	☐	☐	☐	☐	☐
h)	The implementation of ICT-based approaches in administration	☐	☐	☐	☐	☐	☐	☐	☐
i)	The use of ICT-based approaches to assessment	☐	☐	☐	☐	☐	☐	☐	☐
j)	The assessment of students' computer and information literacy	☐	☐	☐	☐	☐	☐	☐	☐

k) The implementation of a computer and information literacy curriculum at the school   ☐   ☐   ☐   ☐   ☐   ☐   ☐   ☐

l) The development of ICT-related teacher competencies   ☐   ☐   ☐   ☐   ☐   ☐   ☐   ☐

Q13 **Does your school or school system have policies with regard to the following aspects of ICT use?**

(Please mark one choice in each row)

		Yes	No
a)	The provision of security measures to prevent unauthorized system access or entry	☐	☐
b)	Restrictions on the number of hours students are allowed to sit at a computer	☐	☐
c)	Student access to school computers outside class hours (but during school hours)	☐	☐
d)	Student access to school computers outside school hours	☐	☐
e)	The fulfilment of intellectual property rights (e.g. software copyrights)	☐	☐
f)	Prohibitions of access to inappropriate material (e.g. pornography, violence)	☐	☐
g)	Student use of non-school related games on school computers	☐	☐
h)	The provision of access to school computers and/or the Internet for the local community (parents and/or others)	☐	☐
i)	Support for students with disabilities	☐	☐
j)	Unacceptable behaviours towards other students (e.g. Cyberbullying)	☐	☐
k)	The provision of laptop computers and/or other mobile learning devices for student use at school and at home	☐	☐
l)	Student use of their own digital devices at school	☐	☐

Q14 **Throughout the current school year, how many teachers in this school participate in the following forms of professional development about ICT for teaching and learning?**

(Please mark one choice in each row)

		None or hardly any	Some of them	Most of them	All or nearly all
a)	Courses on the use of ICT in teaching provided by the school or the school system	☐	☐	☐	☐
b)	Training by another teacher who has attended a course on ICT	☐	☐	☐	☐

c) Discussions about the use of ICT in education as a regular item during meetings of the teaching staff ☐ ☐ ☐ ☐

d) Observations of colleagues using ICT in their teaching ☐ ☐ ☐ ☐

e) Group discussions of teachers about their use of ICT in teaching ☐ ☐ ☐ ☐

f) Participation in professional learning programs delivered online ☐ ☐ ☐ ☐

g) Participation in courses on ICT conducted by an external agency or expert ☐ ☐ ☐ ☐

h) Participation in a community of practice concerned with ICT in teaching ☐ ☐ ☐ ☐

Q15 **At your school, what priority is given to the following ways of facilitating the use of ICT in teaching and learning?**

(Please mark one choice in each row)

		High priority	Medium priority	Low priority	Not a priority
a)	Increasing the numbers of computers per student in the school	☐	☐	☐	☐
b)	Increasing the number of computers connected to the Internet	☐	☐	☐	☐
c)	Increasing the bandwidth of Internet access for the computers connected to the Internet	☐	☐	☐	☐
d)	Increasing the range of digital learning resources available for teaching and learning	☐	☐	☐	☐
e)	Establishing or enhancing an online learning support platform	☐	☐	☐	☐
f)	Supporting participation in professional development on pedagogical use of ICT	☐	☐	☐	☐
g)	Increasing the availability of qualified technical personnel to support the use of ICT	☐	☐	☐	☐
h)	Providing teachers with incentives to integrate ICT use in their teaching	☐	☐	☐	☐
i)	Providing more time for teachers to prepare lessons in which ICT is used	☐	☐	☐	☐
j)	Increasing the professional learning resources for teachers in the use of ICT	☐	☐	☐	☐
k)	Providing for students to bring their own ICT for use at school	☐	☐	☐	☐

THANK YOU FOR YOUR TIME AND EFFORT IN COMPLETING THIS QUESTIONNAIRE

IEA International Computer and Information Literacy Study

ICT-Coordinator Questionnaire for the 2017 U.S. Field Test

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The Australian Council *for* Educational Research

ICT Coordinator *Questionnaire*

Your school has agreed to participate in the 2017 Field Test for the International Computer and Information Literacy Study (ICILS). ICILS is an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). The purpose of ICILS is to examine across different countries the extent to which young people in eighth grade have developed computer and information literacy, which is defined as the ability to use Information and Communications Technology (ICT) to investigate, create, and communicate with others at home, school, the workplace and in society.

In this questionnaire ICT can be:

- desktop computers
- notebook or laptop computers
- netbook computers
- tablet devices
- smartphones, except when being used for talk and text.

This questionnaire is concerned with ICT in schools and in particular the ICT resources (including computers) as well as pedagogical practices that use ICT. The questionnaire is addressed to ICT Coordinators who are asked to provide information about their schools. It is important that the person responding knows about the ICT facilities in your school and about practices regarding their use. The questionnaire should be completed by the person with designated responsibility for ICT in the school. If there is no person with designated responsibility for ICT in the school, the questionnaire should be completed by the principal or assistant principal.

Since your school has been selected as part of a nationwide sample, your responses are very important in helping to evaluate the questions as relevant to describing eighth-grade education in the United States. If you do not have the information to answer particular questions, then please consult other persons in your school.

In this questionnaire you will find questions about your position as ICT Coordinator; ICT resources in your school; and support for ICT use in your school. Since ICILS is an international study and all countries are using the same questionnaire, you may find that some of the questions seem unusual or are not entirely relevant to you or schools in the United States. Nevertheless, it is important that you do your best to answer all the questions as accurately as you can so comparisons can be made across countries in the study.

It is estimated that you will need about 15 minutes to complete the questionnaire. **We appreciate the time and effort this takes and thank you for your cooperation and contribution.**

The National Center for Education Statistics (NCES) is authorized to collection information from the questionnaire under the Education Science 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. Your answers 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 Your Position

This questionnaire asks for information about ICT resources (including computers) in your school as well as pedagogical practices that use ICT. It is important that the person responding knows about the ICT facilities in your school and about practices regarding their use.

The questionnaire should be completed by the person with designated responsibility for ICT in the school. If there is no person with designated responsibility for ICT in the school, the questionnaire should be completed by the principal or assistant principal.

If you do not have the information to answer particular questions, then please consult other persons in your school.

Q1   Do you, at your school, hold the position of technology or computer coordinator?
(Please mark only one choice)

☐   Yes, I formally serve as coordinator.

☐   Yes, I informally serve as coordinator.

☐   I am not the ICT-coordinator, but I am answering as the school principal or his/her designate.

Q2   Which of the following teaching duties do you have?
(Please mark one choice in each row)

	Yes	*No*
I teach ICT courses to students.	☐	☐
I teach other subjects (i.e. not ICT) to students.	☐	☐
I do <u>not</u> have any teaching duties for students.	☐	☐
I teach ICT courses to, or conduct workshops for, teachers and other school staff.	☐	☐

Q3 **How many years has your school been using ICT for teaching and/or learning purposes for students in eighth grade?**

(Please mark only one choice)

☐　Never, we do not use computers

☐　Fewer than 5 years

☐　At least 5 but fewer than 10 years

☐　10 years or more

ICT RESOURCES

Q4 **Please indicate the availability of the following technology resources in your school.**

(Please mark one choice in each row)

		Available to teachers <u>and</u> students	Available only to teachers	Available only to students	Not available
a)	Digital learning resources that can be accessed offline	☐	☐	☐	☐
b)	Digital learning resources that can only be used online	☐	☐	☐	☐
c)	Access to the Internet through the school network	☐	☐	☐	☐
d)	Access to an education site or network maintained by education authorities	☐	☐	☐	☐
e)	Email accounts for school-related use	☐	☐	☐	☐

Q5   Please indicate the availability of each of the following software resources at your school.

(Please mark one choice in each row)

		Available to teachers *and* students	Available only to teachers	Available only to students	Not available
a)	Practice programs or apps where teachers decide which questions are asked of students (e.g. Quizlet, Kahoot,)	☐	☐	☐	☐
b)	Single user digital learning games (e.g. languages online, GarageBand)	☐	☐	☐	☐
c)	Multi-user digital learning games with graphics and inquiry tasks (e.g. Quest Atlantis)	☐	☐	☐	☐
d)	Word-processor software (e.g. Microsoft Word ®)	☐	☐	☐	☐
e)	Presentation software (e.g. Microsoft PowerPoint ®)	☐	☐	☐	☐
f)	Video and photo software for capture and editing (e.g. Windows Movie Maker, iMovie, Adobe Photoshop)	☐	☐	☐	☐
g)	Concept mapping software (e.g. Inspiration ®, Webspiration ®)	☐	☐	☐	☐
h)	Data logging and monitoring tools (e.g. Logger Pro) that capture real-world data digitally for analysis (e.g. speed, temperature)	☐	☐	☐	☐
i)	Simulations and modelling software (e.g. NetLogo)	☐	☐	☐	☐
j)	A learning management system (e.g. Edmodo, Blackboard, Moodle)	☐	☐	☐	☐
k)	Graphing or drawing software	☐	☐	☐	☐
l)	e-portfolios (e.g. VoiceThread)	☐	☐	☐	☐
m)	Digital contents linked with textbooks	☐	☐	☐	☐
n)	Social media (e.g. Facebook, Twitter)	☐	☐	☐	☐

Q6 **Please indicate the availability of the following technology facilities at eighth grade.**
(Please mark one choice in each row)

	Available to teachers *and* students	Available only to teachers	Available only to students	Not available
a) Remote access to a school network	☐	☐	☐	☐
b) Space on a school network to store files	☐	☐	☐	☐
c) A school intranet with applications and workspaces	☐	☐	☐	☐
d) Internet-based applications for collaborative work (e.g. Google Docs ®, Padlet, OneNote ®)	☐	☐	☐	☐
e) A learning management system (e.g. Edmodo, Blackboard, Moodle)	☐	☐	☐	☐
f) A 3D printer	☐	☐	☐	☐
g) Programmable physical agents (e.g. robots)	☐	☐	☐	☐
h) Access to a wireless LAN (Wi-fi)	☐	☐	☐	☐

Q7a **In your school, approximately how many of the following types of (school-provided) ICT devices are available?**

(Please record a whole number. Record 0 (zero), if none.)

For this question please:

- *Count terminals (if they have a keyboard and a screen) as computers*
- *Exclude computers that are not in use (e.g. in storage)*
- *Exclude computers that are only used as servers*

	All devices in the school			Devices available for student use		
Desktop computers						
Laptops/notebooks						
Tablet devices						

Q7b **Approximately, what percentage of all ICT devices in the school (include all types) are connected to the Internet?**

%

Q7c   In your school, about how many (school-provided) smart boards or interactive whiteboards are available?

(Please record a <u>whole</u> number. Record 0 (zero), if none.)

| | | | Smart boards / interactive white boards

Q8   Does your school or school district or relevant education authority provide teachers with their own portable digital device?

(Please mark only one choice)

☐   Yes, for every teacher

☐   Yes, but not for all teachers

☐   No

Q9   Approximately what percentage of students at the eighth grade have access to portable computers (laptops, netbooks or tablet devices) at school?

(Please mark one choice in each row)

		0 to 25%	26 to 50%	51 to 75%	76 to 100%
a)	Students provided with portable computers for use at school only	☐	☐	☐	☐
b)	Students provided with portable computers for use at home and at school	☐	☐	☐	☐
c)	Students bringing their own portable computers for use at school	☐	☐	☐	☐

Q10 **Where are school ICT devices for teaching and learning in eighth grade located?**

(Please mark one choice in each row)

		Yes	No
a)	In most (80% or more) classrooms	☐	☐
b)	In computer laboratories	☐	☐
c)	As class sets of computers that can be moved between classrooms	☐	☐
d)	In the library	☐	☐
e)	In other places accessible to students (e.g. cafeteria, auditorium, study area)	☐	☐
f)	They are brought by students to class	☐	☐

ICT SUPPORT

Q11 At your school, who provides day-to-day *technical* ICT support?

(Please mark one choice in each row)

		Yes	No
a)	Yourself	☐	☐
b)	A network administrator in the school (other than yourself)	☐	☐
c)	Other ICT technical staff (not including yourself) at the school	☐	☐
d)	Other administrators and school staff	☐	☐
e)	Other teachers	☐	☐
f)	Staff from the school district or relevant education authority responsible for the school	☐	☐
g)	Personnel from external companies contracted to provide maintenance	☐	☐
h)	Students from this school	☐	☐

Q12 At your school, who provides day-to-day *pedagogical* ICT support for teachers?

(Please mark one choice in each row)

		Yes	No
a)	Yourself	☐	☐
b)	Other ICT technical staff (not including yourself) at the school	☐	☐
c)	Other administrators and school staff	☐	☐
d)	Librarians, library staff or information specialists	☐	☐
e)	Other teachers	☐	☐
f)	Staff from the school district or relevant education authority responsible for the school	☐	☐

Q13 To what extent is the use of ICT in teaching and learning at your school hindered by each of the following obstacles?

(Please mark one choice in each row)

		A lot	To some extent	Very little	Not at all
a)	Too few computers with an Internet connection	☐	☐	☐	☐
b)	Insufficient Internet bandwidth or speed	☐	☐	☐	☐
c)	Not enough computers for instruction	☐	☐	☐	☐
d)	Lack of sufficiently powerful computers	☐	☐	☐	☐
e)	Problems in maintaining ICT equipment	☐	☐	☐	☐
f)	Not enough computer software	☐	☐	☐	☐
g)	Insufficient ICT skills among teachers	☐	☐	☐	☐
h)	Insufficient time for teachers to prepare lessons	☐	☐	☐	☐
i)	Insufficient effective professional learning resources for teachers	☐	☐	☐	☐
j)	Lack of an effective online learning support platform	☐	☐	☐	☐
k)	Insufficient incentives for teachers to integrate ICT use in their teaching	☐	☐	☐	☐
l)	Restricted access to useful Internet resources	☐	☐	☐	☐
m)	Insufficient technical ICT support	☐	☐	☐	☐
n)	Insufficient pedagogical support for the use of ICT	☐	☐	☐	☐

Q14   Is computing, computer science, information technology, informatics or similar taught as a standalone subject at the eighth grade in your school?

Yes   ☐   Please continue with question 16

No   ☐   Please go to the end of the questionnaire   ➔

Q15   In the teaching of computing, computer science, information technology, informatics or similar at the eighth grade in your school, how much emphasis is given to the following tasks?

(Please mark one choice in each row)

		Strong emphasis	Some emphasis	Little emphasis	No emphasis
a)	Develop algorithms (e.g. instructions for a program like Scratch)	☐	☐	☐	☐
b)	Design information systems	☐	☐	☐	☐
c)	Write computer programs	☐	☐	☐	☐
d)	Evaluate computer programs	☐	☐	☐	☐
e)	Develop applications	☐	☐	☐	☐
f)	Refine computer code to improve efficiency	☐	☐	☐	☐
g)	Debug computer code	☐	☐	☐	☐
h)	Build electronic devices	☐	☐	☐	☐
i)	Develop simulations	☐	☐	☐	☐
j)	Test solutions to problems using simulations	☐	☐	☐	☐
k)	Create visual displays of information or processes (such as graphs, flow charts and decision trees)	☐	☐	☐	☐

THANK YOU FOR YOUR TIME AND EFFORT
IN COMPLETING THE QUESTIONNAIRE

IEA International Computer and Information Literacy Study

Teacher Questionnaire for the 2017 U.S. Field Test

Confidential to ICILS 2018
Do not cite or quote

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850-0929. The time required to complete this information collection is estimated to average 30 minutes per teacher, including the time to review instructions , search existing data resources, gather the data needed, and complete and review the information collection. If you have any comments or concerns regarding the accuracy of the time estimate(s), suggestions for improving the form, or questions about the status of your individual submission of this form, write directly to: International Computer and Information Literacy Study (ICILS), National Center for Education Statistics, Potomac Center Plaza, 550 12th St., SW, 4th floor, Washington, DC 20202.

OMB No. 1850-0929, Approval Expires 08/31/2019.

The Australian Council *for* Educational Research

Teacher *Questionnaire*

Your school has agreed to participate in the 2017 Field Test for the International Computer and Information Literacy Study (ICILS). ICILS is an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). The purpose of ICILS is to examine across different countries the extent to which young people in eighth grade have developed computer and information literacy, which is defined as the ability to use Information and Communications Technology (ICT) to investigate, create, and communicate with others at home, school, the workplace and in society in order to improve teaching and learning worldwide.

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.

This questionnaire is addressed to teachers who are asked to provide information about ICT in their schools, its use in teaching and learning, and students' development of Computer and Information Literacy (CIL). Since your school has been selected as part of a nationwide sample, your responses are very important in helping to evaluate the questions as relevant to describing eighth-grade education in the United States.

In this questionnaire you will find questions about your background and familiarity with ICT; your use of ICT in teaching a reference eighth-grade class; the use of ICT in the school; and learning to use ICT in teaching. Some questions focus on a nominated 'reference' class. This is the first eighth-grade class that you teach for a regular subject (i.e. other than home room or assembly) on or after the Tuesday following the last weekend before you first accessed this questionnaire. You may, of course, teach the class at other times during the week as well. If you did not teach an eighth-grade class on that Tuesday, please use the eighth-grade class that you taught on the first day after that Tuesday.

Since ICILS is an international study and all countries are using the same questionnaire, you may find that some of the questions seem unusual or are not entirely relevant to you or schools in the United States. Nevertheless, it is important that you do your best to answer all the questions as accurately as you can so comparisons can be made across countries in the study.

It is estimated that you will need about 30 minutes to complete the questionnaire. **We appreciate the time and effort this takes and thank you for your cooperation and contribution.**

The National Center for Education Statistics (NCES) is authorized to collection information from the questionnaire under the Education Science 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. Your answers 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   Are you a female or male?

Female ☐   Male ☐

Q2   How old are you?

(Please mark only one choice)

Less than 25   ☐

25–29   ☐

30–39   ☐

40–49   ☐

50–59   ☐

60 or over   ☐

Q3 **What are the main subjects that you teach in this school in the current school year?**

(Please indicate the subjects that you teach in this school, indicating only those that individually account for at least four classes or two classes if block scheduling is used each week in this school. The exact name of one or more of your subjects may not appear in the list for each category. If it does not, please mark the category you think best fits the subject.)

English Language Arts ☐

Spanish, or other foreign language ☐

Mathematics ☐

Sciences (general science and/or physics, chemistry, biology, geology, earth sciences, technical science) ☐

Human sciences / Humanities / Social Studies (history, geography, civics, law, economics, etc.) ☐

Creative arts (visual arts, music, dance, drama, etc.) ☐

Information technology, computer studies or similar ☐

Practical and vocational subjects ☐

Other (moral/ethics, physical education, home economics, personal and social development) ☐

Q4 **In the current school year, at how many schools do you teach eighth-grade students?**

(Please mark only one choice)

Only in this school ☐

In this and another school ☐

In this and in two other schools ☐

In this and in three or more other schools ☐

YOUR USE OF ICT

Q5 **Approximately how long have you been using ICT for *teaching* purposes?**

(Please mark only one choice in each row)

		Never	*Less than two years*	*Two years or more*
a)	During lessons	☐	☐	☐
b)	Preparing lessons	☐	☐	☐

Q6 **How often do you use ICT in these settings?**

(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 when teaching	☐	☐	☐	☐	☐
b)	At school for other work-related purposes	☐	☐	☐	☐	☐
c)	Outside school for work-related purposes	☐	☐	☐	☐	☐
d)	Outside school for non-work-related purposes	☐	☐	☐	☐	☐

Q7 How well can you do these tasks on ICT?

(Please mark one choice in each row)

		I know how to do this	I haven't done this but I could find out how	I do **not** think I could do this
a)	Produce a letter using a word-processing program	☐	☐	☐
b)	E-mail a file as an attachment	☐	☐	☐
c)	Store your digital photos	☐	☐	☐
d)	File digital documents in folders and sub-folders	☐	☐	☐
e)	Monitor students' progress	☐	☐	☐
f)	Use a spreadsheet program (e.g. Microsoft Excel ®) for keeping records or analyzing data	☐	☐	☐
g)	Contribute to a discussion forum / user group on the Internet (e.g. a wiki or blog)	☐	☐	☐
h)	Produce presentations (e.g. Microsoft PowerPoint ® or a similar program) with simple animation functions	☐	☐	☐
i)	Use the Internet for online purchases and payments	☐	☐	☐
j)	Prepare lessons that involve the use of ICT by students	☐	☐	☐
k)	Find useful teaching resources on the Internet	☐	☐	☐
l)	Assess student learning	☐	☐	☐
m)	Collaborate with others using shared resources such as Google Docs ®, Padlet, OneNote ®	☐	☐	☐
n)	Install software	☐	☐	☐
o)	Use a learning management system (e.g. Moodle, Blackboard, Edmodo)	☐	☐	☐

YOUR USE OF ICT IN TEACHING

In this section of the questionnaire please focus your responses on your teaching practices in a 'reference' class.

This is the first eighth-grade class that you teach for a regular subject (i.e. other than home room, assembly) on or after Tuesday following the last weekend before you first accessed this questionnaire. You may, of course, teach the class at other times during the week as well. If you did not teach an eighth-grade class on that Tuesday, please use the eighth-grade class that you taught on the first day after that Tuesday.

Q8 **Which of the following best describes the subject for this reference class?**

(Please mark only one choice)

English Language Arts ☐

Spanish, or other foreign language ☐

Mathematics ☐

Sciences (general science and/or physics, chemistry, biology, geology, earth sciences, technical sciences) ☐

Human sciences / Humanities / Social Studies (history, geography, civics, law, economics, etc.) ☐

Creative arts (visual arts, music, dance, drama, etc.) ☐

Information technology, computer studies or similar ☐

Practical and vocational subjects ☐

Other (moral/ethics, physical education, home economics, personal and social development) ☐

Q9 **In your teaching of the reference class in this school year, how much emphasis have you given to developing the following ICT-based capabilities in your students?**
(Please mark one choice in each row)

		Strong emphasis	Some emphasis	Little emphasis	No emphasis
a)	To access information efficiently	☐	☐	☐	☐
b)	To evaluate the relevance of digital information	☐	☐	☐	☐
c)	To display information for a given audience/purpose	☐	☐	☐	☐
d)	To evaluate the credibility of digital information	☐	☐	☐	☐
e)	To share digital information with others	☐	☐	☐	☐
f)	To use computer software to construct digital work products (e.g. presentations, documents, images and diagrams)	☐	☐	☐	☐
g)	To systematically evaluate the students' own approaches to information searches	☐	☐	☐	☐
h)	To provide digital feedback on the work of others (such as classmates)	☐	☐	☐	☐
i)	To explore a range of digital resources when searching for information	☐	☐	☐	☐
j)	To provide references for digital information sources	☐	☐	☐	☐
k)	To understand the consequences of making information publically available online	☐	☐	☐	☐

Q10 **How often do <u>students</u> in your reference class use ICT for the following activities?**

(Please mark one choice in each row)

		They do **not** engage in this activity	They never use ICT in this activity	They sometimes use ICT in this activity	They often use ICT in this activity	They always use ICT in this activity
a)	Work on extended projects (i.e. lasting over a week)	☐	☐	☐	☐	☐
b)	Work on short assignments (i.e. within one week)	☐	☐	☐	☐	☐
c)	Explain and discuss ideas with other students	☐	☐	☐	☐	☐
d)	Submit completed work for assessment	☐	☐	☐	☐	☐
e)	Work individually on learning materials at their own pace	☐	☐	☐	☐	☐
f)	Undertake open-ended investigations or field work	☐	☐	☐	☐	☐
g)	Reflect on their learning experiences (e.g. by using a learning log)	☐	☐	☐	☐	☐
h)	Communicate with students in other schools on projects	☐	☐	☐	☐	☐
i)	Seek information from experts outside the school	☐	☐	☐	☐	☐
j)	Plan a sequence of learning activities for themselves	☐	☐	☐	☐	☐
k)	Analyze data	☐	☐	☐	☐	☐
l)	Search for information on a topic using outside resources	☐	☐	☐	☐	☐
m)	Evaluate information resulting from a search	☐	☐	☐	☐	☐
n)	Collect data for a project	☐	☐	☐	☐	☐
o)	Create visual products or videos	☐	☐	☐	☐	☐
p)	Produce or edit music	☐	☐	☐	☐	☐
q)	Share products with other students	☐	☐	☐	☐	☐
r)	Produce animations	☐	☐	☐	☐	☐

Q11 **How often do you use ICT with the following practices when teaching your reference class?**

(Please mark one choice in each row)

		I do **not** use this practice with the reference class	I never use ICT with this practice	I sometimes use ICT with this practice	I often use ICT with this practice	I always use ICT with this practice
a)	The presentation of information through direct class instruction	☐	☐	☐	☐	☐
b)	The provision of remedial or enrichment support to individual students or small groups of students	☐	☐	☐	☐	☐
c)	The support of student-led whole-class discussions and presentations	☐	☐	☐	☐	☐
d)	The assessment of students' learning through tests	☐	☐	☐	☐	☐
e)	The provision of feedback to students on their work	☐	☐	☐	☐	☐
f)	The reinforcement of learning of skills through repetition of examples	☐	☐	☐	☐	☐
g)	The support of collaboration among students	☐	☐	☐	☐	☐
h)	The mediation of communication between students and experts or external mentors	☐	☐	☐	☐	☐
i)	The support of student collaboration with other students (within or outside school)	☐	☐	☐	☐	☐
j)	The communication with parents or guardians about students' learning	☐	☐	☐	☐	☐
k)	The support of inquiry learning	☐	☐	☐	☐	☐

Q12 How often did <u>you</u> use the following tools in <u>your</u> teaching of the reference class this school year?

(*Please mark one choice in each row*)	*Never*	*In some lessons*	*In most lessons*	*In every or almost every lesson*
a) Practice programs or apps where you ask students questions (e.g. Quizlet, Kahoot)	☐	☐	☐	☐
b) Single user digital learning games (e.g. languages online, Garageband)	☐	☐	☐	☐
c) Multi-user digital learning games with graphics and inquiry tasks (e.g. Quest Atlantis)	☐	☐	☐	☐
d) Word-processor software (e.g. Microsoft Word ®	☐	☐	☐	☐
e) Presentation software (e.g. Microsoft PowerPoint ®)	☐	☐	☐	☐
f) Spreadsheets (e.g. Microsoft Excel ®)	☐	☐	☐	☐
g) Video and photo software for capture and editing (e.g. Windows Movie Maker, iMovie, Adobe Photoshop)	☐	☐	☐	☐
h) Concept mapping software (e.g. Inspiration ®, Webspiration ®)	☐	☐	☐	☐
i) Data logging and monitoring tools (e.g. Logger Pro)	☐	☐	☐	☐
j) Simulations and modelling software (e.g. NetLogo	☐	☐	☐	☐
k) A learning management system (e.g. Edmodo, Blackboard, Moodle)	☐	☐	☐	☐
l) Communication software (e.g. email, direct messaging, Skype)	☐	☐	☐	☐
m) Collaborative software (e.g. Google Docs ®, Onenote ®, Padlet	☐	☐	☐	☐
n) Computer-based information resources (e.g. websites, wikis, encyclopaedia)	☐	☐	☐	☐
o) Interactive digital learning resources (e.g. learning objects)	☐	☐	☐	☐
p) Graphing or drawing software	☐	☐	☐	☐

Q12 **How often did <u>you</u> use the following tools in <u>your</u> teaching of the reference class this school year?**

q)   e-portfolios (e.g. VoiceThread)   ☐ ☐ ☐ ☐

r)   Digital contents linked with textbooks   ☐ ☐ ☐ ☐

s)   Social media (e.g. Facebook, Twitter)   ☐ ☐ ☐ ☐

Q13 **In your teaching of the reference class this school year, how much emphasis have you given to student learning of the following skills?**

(Please mark one choice in each row)

		Strong emphasis	Some emphasis	Little emphasis	No emphasis
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 identify the most efficient solution to a problem	☐	☐	☐	☐
f)	To use tools making diagrams that help solve problems	☐	☐	☐	☐
g)	To use simulations to help understand or solve real-world problems	☐	☐	☐	☐
h)	To make flow diagrams to show the different parts of a process	☐	☐	☐	☐
i)	To record and evaluate data to understand and solve a problem	☐	☐	☐	☐
j)	To work with instructions to complete or describe tasks	☐	☐	☐	☐
k)	To use real-world data to review and revise solutions to problems	☐	☐	☐	☐

Q14 How confident do you feel about teaching the following skills to the reference class?

(Please mark one choice in each row)

		Very confident	*Quite confident*	*Not very confident*	*Not at all confident*
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 identify the most efficient solution to a problem	☐	☐	☐	☐
f)	To use tools to make diagrams that help solve problems	☐	☐	☐	☐
g)	To use simulations to help understand or solve real-world problems	☐	☐	☐	☐
h)	To make flow diagrams to show the different parts of a process	☐	☐	☐	☐
i)	To record and evaluate data to understand and solve a problem	☐	☐	☐	☐
j)	To work with instructions to complete or describe tasks	☐	☐	☐	☐
k)	To use real-world data to review and revise solutions to problems	☐	☐	☐	☐

IN YOUR SCHOOL

Q15   To what extent do you agree or disagree with the following statements about the use of ICT in teaching at your school?
(Please mark one choice in each row)

		Strongly agree	Agree	Disagree	Strongly disagree
a)	ICT is considered a priority for use in teaching.	☐	☐	☐	☐
b)	My school has sufficient ICT equipment (e.g. computers).	☐	☐	☐	☐
c)	My school has access to sufficient digital learning resources (e.g. learning software or apps).	☐	☐	☐	☐
d)	My school has good connectivity (e.g. fast speed and stable) to the Internet.	☐	☐	☐	☐
e)	The computer equipment in our school is up-to-date.	☐	☐	☐	☐
f)	There is sufficient time to prepare lessons that incorporate ICT.	☐	☐	☐	☐
g)	There is sufficient opportunity for me to develop expertise in ICT.	☐	☐	☐	☐
h)	There is sufficient technical support to maintain ICT resources.	☐	☐	☐	☐
i)	There is sufficient technical support to solve issues promptly when problems arise.	☐	☐	☐	☐
j)	There is enough support for the use of ICT in teaching and learning.	☐	☐	☐	☐

Q16 **To what extent do you agree or disagree with the following statements about your use of ICT in teaching and learning at your school?**

(Please mark one choice in each row)

		Strongly agree	*Agree*	*Disagree*	*Strongly disagree*
a)	I work together with other teachers on improving the use of ICT in classroom teaching.	☐	☐	☐	☐
b)	I follow a common set of rules about how ICT should be used in classrooms.	☐	☐	☐	☐
c)	I collaborate with colleagues to develop ICT-based lessons.	☐	☐	☐	☐
d)	I observe how other teachers use ICT in teaching.	☐	☐	☐	☐
e)	I discuss with other teachers how to use ICT in teaching topics.	☐	☐	☐	☐
f)	I share ICT-based resources with other teachers in my school.	☐	☐	☐	☐

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LEARNING TO USE ICT IN TEACHING

Q17   **Did your Bachelor's degree include the following elements?**

(Please mark one choice in each row)

		Yes	No
a)	Learning how to use ICT	☐	☐
b)	Learning how to use ICT in teaching	☐	☐

Q18 How often have you participated in any of the following professional learning activities in the past two years?

(Please mark one choice in each row)

		Not at all	Once only	More than once
a)	A course on ICT applications (e.g. word processing, presentations, internet use, spreadsheets, databases)	☐	☐	☐
b)	A course on integrating ICT into teaching and learning	☐	☐	☐
c)	Training on subject-specific digital teaching and learning resources	☐	☐	☐
d)	Observations of other teachers using ICT in teaching	☐	☐	☐
e)	An ICT-mediated discussion or forum on teaching and learning	☐	☐	☐
f)	The sharing of digital teaching and learning resources with others through a collaborative workspace	☐	☐	☐
g)	Use of a collaborative workspace to jointly evaluate student work	☐	☐	☐
h)	A course on use of ICT for students with disabilities	☐	☐	☐
i)	A webinar on ICT integration in teaching and learning	☐	☐	☐
j)	Use of a student data management system	☐	☐	☐
k)	Use of ICT to support personalized learning by students	☐	☐	☐

APPROACHES TO TEACHING

Q19 **To what extent do you agree or disagree with the following statements about using ICT in teaching and learning at school?**

(Please mark one choice in each row)

	Using ICT at school …	Strongly agree	Agree	Disagree	Strongly disagree
a)	impedes concept formation by students.	☐	☐	☐	☐
b)	helps students develop greater interest in learning.	☐	☐	☐	☐
c)	helps students to work at a level appropriate to their learning needs.	☐	☐	☐	☐
d)	encourages students to copy material from Internet sources.	☐	☐	☐	☐
e)	helps students develop problem solving skills.	☐	☐	☐	☐
f)	distracts students from learning.	☐	☐	☐	☐
g)	results in poorer written expression among students.	☐	☐	☐	☐
h)	results in poorer calculation and estimation skills among students.	☐	☐	☐	☐
i)	helps students learn to collaborate with other students.	☐	☐	☐	☐
j)	limits the amount of personal communication among students.	☐	☐	☐	☐
k)	enables students to communicate more effectively with others.	☐	☐	☐	☐
l)	introduces organizational problems for schools.	☐	☐	☐	☐
m)	helps teachers communicate with students.	☐	☐	☐	☐
n)	helps students develop skills in planning and self-regulation of their work.	☐	☐	☐	☐
o)	improves academic performance of students.	☐	☐	☐	☐
p)	enables students to access better sources of information.	☐	☐	☐	☐
q)	helps students to consolidate and	☐	☐	☐	☐

Q19 **To what extent do you agree or disagree with the following statements about using ICT in teaching and learning at school?**

process information more effectively.

Q20 Teachers often have beliefs about the emphasis that they typically prefer to place on different approaches to teaching and learning.

Which priority do you think is more important in each of the pairs below?

(Please mark the more important priority in each row.)

	This is more important	This is more important	
a) Instruction should be built around problems with clear, correct answers.	☐	☐	Instruction should focus on students finding solutions to open-ended problems.
b) The main role of a teacher is to facilitate students' own inquiry.	☐	☐	The main role of a teacher is to demonstrate the correct way to do things.
c) Students learn best by working through complex problems.	☐	☐	Students learn best by progressing through sequences of simple elements of problems.
d) Teaching should be based on direct instruction of ideas that most students can grasp quickly.	☐	☐	Teaching should be based on supporting student exploration of complex ideas.
e) Knowledge of content and principles in core subject areas.	☐	☐	Developing general inquiry processes that will support lifelong learning.
f) Students learn best when they decide on the activities to be undertaken in class.	☐	☐	Students learn best when the teacher – not the students – decides what activities are to be done in class.

THANK YOU FOR YOUR TIME AND EFFORT IN COMPLETING THE QUESTIONNAIRE

Now please email the ICILShelpdesk@westat.com and provide an email address where we can send your $20 Amazon gift card code as a token of appreciation for your participation.

IEA International Computer and Information Literacy Study

Student Questionnaire for the 2017 U.S. Field Test

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The Australian Council *for* Educational Research

Student *Questionnaire*

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 collection information from the questionnaire under the Education Science 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. Your answers 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

G01

Q1   **When were you born?**

January - December (Month)   ☐

1997 – 2008 (Year)   ☐

G02

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

Girl   Boy

☐   ☐

Q3   **What is the highest level of education you expect to complete?**
(Please mark only one choice)

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

G04

Q4 **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	☐	☐	☐

G05

Q5 **What language do you speak at home most of the time?**
(Please mark only one choice)

English	☐
Spanish	☐
Another language	☐

Q6 **Does your parent or guardian 1 work in a paid job?**

Yes ☐ (**Note:** Student will be directed to Q7a and Q7b)

No ☐ (**Note:** Student will be directed to Q8a and Q8b)

Q7a **What is your parent or guardian 1's main job?**
(for example, school teacher, cook, sales manager)

(Please write in the job title)

Q7b **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)*

Q8a **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)

Q8b **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)

Q9 **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)

Master's degree or professional degree (MD, DDS, lawyer, minister) OR Doctorate (Ph.D., or EdD) ☐

Associate's degree (2-year college program) OR Bachelor's degree (4-year college program) ☐

High school graduate ☐

Some high school ☐

Less than high school ☐

Q10 **Does your parent or guardian 2 work in a paid job?**

Yes ☐ (**Note:** Student will be directed to Q11a and Q11b)

No ☐ (**Note:** Student will be directed to Q12a and Q12b)

G11A

Q11a **What is your parent or guardian 2's main job?**
(for example, school teacher, cook, sales manager)
(Please write in the job title)

G11B

Q11b **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)

G12A

Q12a **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)

Q12b   **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)

Q13   **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)

Master's degree or professional degree (MD, DDS, lawyer, minister) OR Doctorate (Ph.D., or EdD)   ☐

Associate's degree (2-year college program) OR Bachelor's degree (4-year college program)   ☐

High school graduate   ☐

Some high school   ☐

Less than high school   ☐

Q14   About how many books are there in your home?

There are usually about 40 books per metre of shelving. 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)   ☐

Q15 **How often do you use ICT to read e-books in your home?**
(Please mark only one choice)

Never or hardly ever ☐

At least once a month but not every week ☐

At least once a week but not every day ☐

Every day ☐

Q16 **How many of the following ICT are currently used in your home?**
(Please mark one choice in each row)

		None	*One*	*Two*	*Three or more*
a)	Desktop computers	☐	☐	☐	☐
b)	Portable computers (e.g. laptop, notebook, netbook)	☐	☐	☐	☐
c)	Tablet devices or e-readers (e.g. iPad, Surface Pro, Kindle)	☐	☐	☐	☐
d)	Smartphones	☐	☐	☐	☐

Q17   Do you have an Internet connection at home?

(Please mark only one choice)

Yes ☐

No ☐

YOUR USE OF ICT

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

(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 portable computers	☐	☐	☐	☐	☐
b) Tablet devices	☐	☐	☐	☐	☐
c) Smartphones except for using text and calling	☐	☐	☐	☐	☐

C01

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 documents	☐	☐	☐	☐	☐
c) Create or edit 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 home	☐	☐	☐	☐	☐
b) At school	☐	☐	☐	☐	☐
c) At other places (e.g. local library, Internet café)	☐	☐	☐	☐	☐

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 from current events on social media	☐	☐	☐	☐	☐
b) Talk to friends, family, or other people using 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) Tag others online in posts or images on social media	☐	☐	☐	☐	☐
k) Send or forward information about events or activities to other people	☐	☐	☐	☐	☐

A03

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) Read posts or websites about things you are interested in	☐	☐	☐	☐	☐
f) Use websites, forums, or online videos to find out how to do something	☐	☐	☐	☐	☐
g) Play single-player games	☐	☐	☐	☐	☐
h) Play multi-player games using the same device as the other player(s)	☐	☐	☐	☐	☐
i) Play multi-player games where each player uses his/her individual device	☐	☐	☐	☐	☐
j) Listen to downloaded or streamed music	☐	☐	☐	☐	☐
k) Watch downloaded or streamed TV shows or movies	☐	☐	☐	☐	☐
l) Buy things online	☐	☐	☐	☐	☐

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 from your own school	☐	☐	☐	☐	☐
d) Work online with other students from other schools	☐	☐	☐	☐	☐
e) Complete worksheets or exercises	☐	☐	☐	☐	☐
f) Organize your time and work	☐	☐	☐	☐	☐
g) Write about your learning	☐	☐	☐	☐	☐
h) Complete tests	☐	☐	☐	☐	☐
i) Use software or applications to learn skills or a subject (e.g. mathematics tutoring software, language learning software)	☐	☐	☐	☐	☐
j) Use the Internet to search for information	☐	☐	☐	☐	☐
k) Use coding software to complete assignments (e.g. Scratch, Minecraft)	☐	☐	☐	☐	☐

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	☐	☐	☐	☐	☐
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 (history, geography, civics, law, economics, etc.)	☐	☐	☐	☐	☐
f) Creative arts (visual arts, music, dance, drama, etc.)	☐	☐	☐	☐	☐
g) Information technology, computer studies or similar	☐	☐	☐	☐	☐
h) Practical or vocational subjects	☐	☐	☐	☐	☐
i) Other (moral/ethics, physical education, home economics, 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, encyclopaedia)	☐	☐	☐	☐
j) Interactive digital learning resources (e.g. learning games or applications)	☐	☐	☐	☐
k) Graphing or drawing software	☐	☐	☐	☐

Q27 How often have the following activities taken place in your lessons

this school year?

(Please mark one choice for each row)

	Never	In some lessons	In most lessons	In every or almost every lesson
a) We use ICT to present information	☐	☐	☐	☐
b) My teacher uses ICT to present information	☐	☐	☐	☐
c) We do tests on ICT	☐	☐	☐	☐
d) My teacher uses ICT to provide students with feedback on what they have learned	☐	☐	☐	☐
e) We work on projects using ICT to share resources and ideas	☐	☐	☐	☐
f) We use the Internet for research	☐	☐	☐	☐
g) We use the Internet to contact external experts	☐	☐	☐	☐

B04

Q28   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) Look for different types of digital information on a topic	☐	☐	☐	☐
i) Build or edit a webpage	☐	☐	☐	☐

Q29 At school, have you learned about the importance of the following topics?

(Please mark one choice in each row)

	Yes	*No*
a) To keep anti-virus software on computers up-to-date	☐	☐
b) To change passwords regularly (e.g. network account, email, social media)	☐	☐
c) To check the origin of emails before opening attachments	☐	☐
d) To log out of a shared computer at the end of a session	☐	☐
e) To use social media responsibly (e.g. what types of information you share about yourself or other people)	☐	☐

YOUR THOUGHTS ABOUT USING ICT

Q30 **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) Search for and find a file	☐	☐	☐
b) Edit digital photographs or other graphic images	☐	☐	☐
c) Create a database (e.g. using Microsoft Access ®)	☐	☐	☐
d) Write or edit text for a school assignment	☐	☐	☐
e) Search for and find relevant information for a school project on the Internet	☐	☐	☐
f) Build or edit a webpage	☐	☐	☐
g) Change the settings on your device to improve the way it operates	☐	☐	☐
h) Use a spreadsheet to do calculations, store data or plot a graph	☐	☐	☐
i) Create a computer program, macro, or app (e.g. in Scratch, Logo, VBA, Java)	☐	☐	☐
j) Set up a local area network of computers or other ICT	☐	☐	☐
k) Create a multi-media presentation (with sound, pictures, or video)	☐	☐	☐
l) Upload text, images, or video to an online profile	☐	☐	☐
m) Insert an image into a document or message	☐	☐	☐
n) Install a program or app	☐	☐	☐
o) Judge whether you can trust information you find on the Internet	☐	☐	☐

Q30 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
p) Select information from within a digital source to use in an assignment	☐	☐	☐
q) Create the best layout for a digital product to help viewers understand information	☐	☐	☐

Q31 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) I would like to study subjects related to ICT after high school	☐	☐	☐	☐
b) I hope to find a job that involves advanced ICT	☐	☐	☐	☐
c) Learning how to use ICT applications will help me to do the work I am interested in	☐	☐	☐	☐
d) Knowing as much as possible about ICT will help me get a job	☐	☐	☐	☐
e) It is no longer possible to find work without knowing how to use ICT	☐	☐	☐	☐

Q32 **How much do you agree or disagree with the following statements about the use of ICT in society?**

(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) Using ICT helps people to relate better to others.	☐	☐	☐	☐
e) With more ICT there will be fewer jobs.	☐	☐	☐	☐
f) People spend far too much time using ICT.	☐	☐	☐	☐
g) ICT is valuable to society.	☐	☐	☐	☐
h) Advances in ICT bring many social benefits.	☐	☐	☐	☐
i) Using ICT may be dangerous for people's health.	☐	☐	☐	☐

STUDYING INFORMATION TECHNOLOGY

D01

Q33 **When studying during the current school year, 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)	Display information in different ways	☐	☐	☐	☐
b)	Break a complex process into smaller parts	☐	☐	☐	☐
c)	Understand diagrams that describe or show real-world problems	☐	☐	☐	☐
d)	Plan tasks by setting out the steps needed to complete them	☐	☐	☐	☐
e)	Identify the most efficient solution to a problem	☐	☐	☐	☐
f)	Use tools to make diagrams that help solve problems	☐	☐	☐	☐
g)	Use simulations to help understand or solve real world problems	☐	☐	☐	☐
h)	Make flow diagrams to show the different parts of a process	☐	☐	☐	☐
i)	Record and evaluate data to understand and solve a problem	☐	☐	☐	☐
j)	Work with instructions to complete or describe tasks	☐	☐	☐	☐
k)	Use real-world data to review and revise solutions to problems	☐	☐	☐	☐

Q34 **How well do you think you can do the following tasks?**

(Please mark one choice in each row)

		Very well	Fairly well	Not very well	Not at all
a)	Display information in different ways	☐	☐	☐	☐
b)	Break a complex process into smaller parts	☐	☐	☐	☐
c)	Understand diagrams that describe or show real-world problems	☐	☐	☐	☐
d)	Plan tasks by setting out the steps needed to complete them	☐	☐	☐	☐
e)	Identify the most efficient solution to a problem	☐	☐	☐	☐
f)	Use tools to make diagrams that help solve problems	☐	☐	☐	☐
g)	Use simulations to help understand or solve real-world problems	☐	☐	☐	☐
h)	Make flow diagrams to show the different parts of a process	☐	☐	☐	☐
i)	Record and evaluate data to understand and solve a problem	☐	☐	☐	☐
j)	Work with instructions to complete or describe tasks	☐	☐	☐	☐
k)	Use real-world data to review and revise solutions to problems	☐	☐	☐	☐

Q35 **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