

# **International Computer and Information Literacy Study (ICILS 2018) Pretest**

**OMB# 1850-0803 v.207**

**Volume 2**

**Submitted by:**

**National Center for Education Statistics (NCES)  
Institute of Education Sciences (IES)  
U.S. Department of Education  
Washington, DC**

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# PAPERWORK BURDEN STATEMENT

The Paperwork Reduction Act and the NCES confidentiality statement are indicated below. Appropriate sections of this information are included in the consent forms and letters. The statements will be included in the materials used in the study.

## Paperwork Burden Statement, OMB Information

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850-0803. The time required to complete this information collection is estimated to be an average of 175 minutes, including the time to review instructions and participate in the information collection. If you have any comments concerning the accuracy of the time estimate, suggestions for improving this collection, or any other concerns, please write to: International Computer and Information Literacy Study (ICILS), National Center for Education Statistics, Potomac Center Plaza, 550 12<sup>th</sup> St., SW, 4th floor, Washington, DC 20202.

**This is a project of the National Center for Education Statistics (NCES), part of the Institute of Education Sciences, within the U.S. Department of Education.**

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).

OMB No. 1850-0803 Approval Expires 07/31/2019

## INTRODUCTION TO THE ASSESSMENT

As documented in Volume 1, there will be two pretesting sessions. The administrators will provide additional instructions to the students:

*For this part of the study, we would like you to take your time exploring the system and interacting with the questions and system tools in different ways. While we would like you to provide answers to questions, we would like you to focus mainly on using the system tools and responding to the questions. Any response is acceptable for the questions as we really want you to experiment with how you can respond to questions and move from question to question. Have a little fun with things and explore the system!*

*Please take the assessment in this way until your time is up.*

## STUDENT DEBRIEFING QUESTIONS

After all students have finished the assessment in each session, field staff will conduct a debriefing activity with the students. Field staff will ask the debriefing questions out loud to the group of students. The questions may be paraphrased, and additional follow-up questions, such as those indicated in the bulleted lists below, may be asked. Students will respond by raising their hands and by calling out responses, as appropriate. Field staff will use their discretion about whether some or all of the questions will be asked, depending on the amount of prompting the students require, and on the amount of time remaining. The debriefing session should not exceed 10 minutes. Field staff will write down the students' responses to the questions.

### 1. *What did you like the most about the assessment?*

*[Follow-up questions may include:]*

- *Can you explain that more?*
- *What did you like the least about the assessment?*
- *What was missing from the assessment?*
- *If you had to take a test, would you rather take it on a tablet, or on paper? Why?*
- *What do you like most about taking a test on a tablet? What do you like the least about taking a test on a tablet?*

2. *Did you see anything you thought was strange while taking the assessment?*

*[Follow-up questions may include:]*

- *Can you explain that more?*
- *Did questions or images seem slow to load at all to you?*
- *Was the system slow to move from one page/question to the next at all?*
- *Did you notice any freezes of your tablet or any error messages?*
- *Were you able to make these errors occur when you wanted to? How?*

3. *Did you find the system easy to use and/or easy to learn to use?*

*[Follow-up questions may include:]*

- *How did you like the tutorial?*
- *Did you use the Help screens? Were the Help screens useful?*
- *What did you think of the tools available? Did you use them?*
- *Which tool or tools did you like the most? Why?*
- *Did you have any difficulty using any of the tools? What did you find difficult?*
- *How did you find the mouse and keypad work with the assessment?*
- *Did you have any difficulty responding to questions using the available controls? If so, what made it difficult?*

4. *Is there anything you think would make the assessment better? If so, what?*

5. *Is there anything else you want to tell us about taking assessments on tablets?*

## **SURVEY QUESTIONNAIRES**

Students will take a set of survey questionnaire items during the ICILS pretest assessment session. For the first pretesting session the items previously administered as part of the ICILS field test will be used, and are included below. For the second pretesting session we anticipate using the ICILS 2018 items that will be finalized for the main study. An update to this request will be submitted to OMB when the final questionnaires are ready and prior to the second pretesting session.



# IEA International Computer and Information Literacy Study

Student Questionnaire for the 2017 U.S. Field Test

For use in ICILS 2018  
Do not cite or quote

*The National Center for Education Statistics (NCES), within the U.S. Department of Education, conducts ICILS in the United States as authorized by the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543). All of the information you provide may only be used 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).*

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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 collect information from the 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 education system in the United States compares to those 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

GO  
1

**Q1**      **When were you born?**

**(Scroll down to answer both parts to this question)**

January

February

March

April

May

June

July

August

September

October

November

December

1997

1998

1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

**GO**  
**2**

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

Girl              Boy  
                 

**GO**  
**3**

**Q3**      **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.*

**GO  
4**

**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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Another country	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**GO  
5**

**Q5** What language do you speak at home most of the time?

*(Please mark only one choice)*

English	<input type="checkbox"/>
Spanish	<input type="checkbox"/>
Another language	<input type="checkbox"/>



G0  
6

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

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

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

G07A

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

G07B

**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)*

G08A

**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)*

- 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

G1  
0

**Q10 Does your parent or guardian 2 work at 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)*

G12B

**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)*

**G13**

**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)*

- 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

**G14**

**Q14 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)



**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)*

	<i>None</i>	<i>One</i>	<i>Two</i>	<i>Three or more</i>
a) Desktop computers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Portable computers (e.g., laptop, notebook, netbook)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Tablet devices or e-readers (e.g., iPad, Surface Pro, Kindle)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Smartphones	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q17**      **Do you have an Internet connection at home?**

*(Please mark only one choice)*

Yes

No

## YOUR USE OF ICT

G18

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

*(Please mark one choice in each row)*

	<i>Never or less than one year</i>	<i>At least one year but less than three years</i>	<i>At least three years but less than five years</i>	<i>At least five years but less than seven years</i>	<i>Seven years or more</i>
a) Desktop or portable computers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Tablet devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Smartphones except for using text and calling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



**Q19 Who mainly taught you how to do the following activities?**

*(Please mark one choice in each row)*

	<i>My teachers</i>	<i>My family</i>	<i>My friends</i>	<i>I taught myself</i>	<i>I have never learned this</i>
a) Communicate over the Internet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Create or edit documents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Create or edit presentations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Change settings on an ICT device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Find information on the Internet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Use programs and files in a computer network	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q20 How often 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)*

	<i>Never</i>	<i>Less than once a month</i>	<i>At least once a month but not every week</i>	<i>At least once a week but not every day</i>	<i>Every day</i>
a) At home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) At school	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) At other places (e.g., local library, Internet café)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

*(Please mark one choice in each row)*

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

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

*(Please mark one choice in each row)*

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

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

*(Please mark one choice in each row)*

	<i>Never</i>	<i>Less than once a month</i>	<i>At least once a month but not every week</i>	<i>At least once a week but not every day</i>	<i>Every day</i>
a) Search the Internet to find information about places to go or activities to do	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Read reviews on the Internet of things you might want to buy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Read news stories on the Internet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Search for online information about things you are interested in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Read posts or websites about things you are interested in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Use websites, forums, or online videos to find out how to do something	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Play single-player games	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Play multi-player games using the same device as the other player(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Play multi-player games where each player uses his/her individual device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j) Listen to downloaded or streamed music	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k) Watch downloaded or streamed TV shows or movies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l) Buy things online	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## USING ICT FOR SCHOOL

A04

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

	<i>Never</i>	<i>Less than once a month</i>	<i>At least once a month but not every week</i>	<i>At least once a week but not every school day</i>	<i>Every school day</i>
a) Prepare reports or essays	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Prepare presentations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Work online with other students from your own school	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Work online with other students from other schools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Complete worksheets or exercises	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Organize your time and work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Write about your learning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Complete tests	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Use software or applications to learn skills or a subject (e.g., mathematics tutoring software, language learning software)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j) Use the Internet to search for information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k) Use coding software to complete assignments (e.g., in Scratch, Logo, VBA, Java)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q25 At school, how often do you use ICT during lessons in the following subjects or subject areas?**

*(Please mark one choice in each row)*

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

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

*(Please mark one choice in each row)*

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

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



*(Please mark one choice for each row)*

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

**Q28 At school, to what extent have you learned how to do the following tasks?**

*(Please mark one choice in each row)*

	<i>To a large extent</i>	<i>To a moderate extent</i>	<i>To a small extent</i>	<i>Not at all</i>
a) Provide references to Internet sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Search for information using ICT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Present information for a given audience or purpose using ICT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Work out whether to trust information from the Internet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Decide what information obtained from the Internet is relevant to include in school work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Organize information obtained from Internet sources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Decide where to look for information on the Internet about an unfamiliar topic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Look for different types of digital information on a topic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Build or edit a webpage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**B05**

**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  | <input type="checkbox"/> | <input type="checkbox"/> |
| b) To change passwords regularly (e.g., network account, email, social media)                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| c) To check the origin of emails before opening attachments   | <input type="checkbox"/> | <input type="checkbox"/> |
| d) To log out of a shared computer at the end of a session  | <input type="checkbox"/> | <input type="checkbox"/> |
| e) To use social media responsibly (e.g., what types of information you share about yourself or other people) | <input type="checkbox"/> | <input type="checkbox"/> |

# YOUR THOUGHTS ABOUT USING ICT

C03

## Q30 How well can you do each of these tasks when using ICT?

*(Please mark one choice in each row)*

	<i>I know how to do this</i>	<i>I have never done this but I could work out how to do this</i>	<i>I do not think I could do this</i>
a) Search for and find a file	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Edit digital photographs or other graphic images	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Create a database (e.g., using Microsoft Access)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Write or edit text for a school assignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Search for and find relevant information for a school project on the Internet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Build or edit a webpage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Change the settings on your device to improve the way it operates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Use a spreadsheet to do calculations, store data or plot a graph	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Create a computer program, macro, or app (e.g., in Scratch, Logo, VBA, Java)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j) Set up a local area network of computers or other ICT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k) Create a multi-media presentation (with sound, pictures, or video)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l) Upload text, images, or video to an online profile	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m) Insert an image into a document or message	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n) Install a program or app	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o) Judge whether you can trust information you find on the Internet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p) Select information from within a digital source to use in an assignment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
q) Create the best layout for a digital product to help viewers understand information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q31 How much do you agree or disagree with the following statements about ICT?**

*(Please mark one choice in each row)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) I would like to study subjects related to ICT after high school	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) I hope to find a job that involves advanced ICT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Learning how to use ICT applications will help me to do the work I am interested in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Knowing as much as possible about ICT will help me get a job	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) It is no longer possible to find work without knowing how to use ICT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**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)*

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
a) Advances in ICT usually improve people's living conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) ICT helps us to understand the world better.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Using ICT makes people more isolated in society.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Using ICT helps people to relate better to others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) With more ICT there will be fewer jobs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) People spend far too much time using ICT.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) ICT is valuable to society.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Advances in ICT bring many social benefits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i) Using ICT may be dangerous for people's health.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## STUDYING INFORMATION TECHNOLOGY

**D0  
1**

**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)*

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

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

*(Please mark one choice in each row)*

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

**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**