The following questions will ask you about digital resources that you may use, both inside and outside of school. Digital resources refer here to:

- ***digital devices or "hardware" (e.g., computers, tablets, smartphones, 3D printers)***
- ***software (e.g., programs, apps, communication tools, educational learning tools); and***
- ***online resources (e.g., websites, web portals)***

Please think of <u>all</u> these when answering the questions on the following screens.

ICIntro1

This school year, how often did you use the following digital resources at school?

(Please select one response in each row.)

	Never or almost never	About once or twice a month	About once or twice a week	Every day or almost every day	Several times a day	This resource is not available to me at school
Desktop or laptop computer	IC170Q01JA01	IC170Q01JA02	IC170Q01JA03	IC170Q01JA04	IC170Q01JA05	IC170Q01JA06
Smartphone (i.e. mobile phone with internet access)	IC170Q02JA01	IC170Q02JA02	IC170Q02JA03	IC170Q02JA04	IC170Q02JA05	IC170Q02JA06
Tablet device (e.g. iPad®, Galaxy Tab™) or e-book reader (e.g. Amazon Kindle™, Kobo®)	IC170Q03JA01	IC170Q03JA02	IC170Q03JA03	IC170Q03JA04	IC170Q03JA05	IC170Q03JA06
Internet access (except on smartphones)	IC170Q04JA01	IC170Q04JA02	IC170Q04JA03	IC170Q04JA04	IC170Q04JA05	IC170Q04JA06
School portal (to consult timetable, absences, etc.)	IC170Q05JA01	IC170Q05JA02	IC170Q05JA03	IC170Q05JA04	IC170Q05JA05	IC170Q05JA06
Educational software, games or apps, other learning tools (e.g. SciMath©, The Geometer's Sketchpad (GSP), Clear-Notebook Sharing online support)	IC170Q06JA01	IC170Q06JA02	IC170Q06JA03	IC170Q06JA04	IC170Q06JA05	IC170Q06JA06
A learning management system or school learning platform (e.g. Blackboard®, Edmodo®, Moodle®, Google® Classroom™)	IC170Q07JA01	IC170Q07JA02	IC170Q07JA03	IC170Q07JA04	IC170Q07JA05	IC170Q07JA06

This school year, how often did you use the following digital resources outside of school (e.g., at home or where you usually access digital resources)?

(Please select one response in each row.)

	Never or almost never	About once or twice a month	About once or twice a week	Every day or almost every day	Several times a day	This resource is not available to me outside of school
Desktop or laptop computer	IC171Q01JA01	IC171Q01JA02	IC171Q01JA03	IC171Q01JA04	IC171Q01JA05	IC171Q01JA06
Smartphone (i.e. mobile phone with Internet access)	IC171Q02JA01	IC171Q02JA02	IC171Q02JA03	IC171Q02JA04	IC171Q02JA05	IC171Q02JA06
Tablet device (e.g. iPad®, Galaxy Tab™,) or e-book reader (e.g. Amazon® Kindle™, Kobo®)	IC171Q03JA01	IC171Q03JA02	IC171Q03JA03	IC171Q03JA04	IC171Q03JA05	IC171Q03JA06
Internet access (except on smartphones)	IC171Q04JA01	IC171Q04JA02	IC171Q04JA03	IC171Q04JA04	IC171Q04JA05	IC171Q04JA06
Educational software, games or apps, other learning tools (e.g. SciMath©, The Geometer's Sketchpad (GSP), Clear-Notebook Sharing online support)	IC171Q05JA01	IC171Q05JA02	IC171Q05JA03	IC171Q05JA04	IC171Q05JA05	IC171Q05JA06
Video or online games (e.g. used with game consoles such as a PlayStation 4 or Nintendo Wii, online gaming platforms such as Steam® or gaming apps such as RoV©, PUBG Mobile©)	IC171Q06JA01	IC171Q06JA02	IC171Q06JA03	IC171Q06JA04	IC171Q06JA05	IC171Q06JA06

The following question is about the availability, accessibility and quality of digital resources at your school.

To what extent do you agree or disagree with the following statements?

(Please think of different kinds of digital resources such as desktop computers, laptops, smartphones and tablet devices as well as educational software and other digital learning tools.)

(Please select one response in each row.)

	Strongly disagree	Disagree	Agree	Strongly agree
There are enough digital resources for every student at my school.	IC172Q01JA01 ○	IC172Q01JA02 ○	IC172Q01JA03 ○	IC172Q01JA04 ○
There are enough digital devices with access to the Internet at my school.	IC172Q02JA01 ○	IC172Q02JA02 ○	IC172Q02JA03 ○	IC172Q02JA04 ○
The school's Internet speed is sufficient.	IC172Q03JA01 ○	IC172Q03JA02 ○	IC172Q03JA03 ○	IC172Q03JA04 ○
Digital resources function properly at my school.	IC172Q04JA01 ○	IC172Q04JA02 ○	IC172Q04JA03 ○	IC172Q04JA04 ○
Digital resources are easily accessible within the classroom.	IC172Q05JA01 ○	IC172Q05JA02 ○	IC172Q05JA03 ○	IC172Q05JA04 ○
Digital learning resources available at my school make learning interesting.	IC172Q06JA01 ○	IC172Q06JA02 ○	IC172Q06JA03 ○	IC172Q06JA04 ○
The school provides sufficient technical support to help students in their use of digital resources.	IC172Q07JA01 ○	IC172Q07JA02 ○	IC172Q07JA03 ○	IC172Q07JA04 ○
Teachers at my school have the necessary skills to use digital devices during instruction.	IC172Q08JA01 ○	IC172Q08JA02 ○	IC172Q08JA03 ○	IC172Q08JA04 ○
Teachers at my school are willing to use digital resources for teaching.	IC172Q09JA01 ○	IC172Q09JA02 ○	IC172Q09JA03 ○	IC172Q09JA04 ○

IC172

How often do you use digital resources in the following classroom lessons?

(Please select one response in each row.)

	Never or almost never	In less than half of the lessons	In about half of the lessons	In more than half of the lessons	In every or almost every lesson	I do not have this subject
Thai language subject	IC173Q01JA01 ○	IC173Q01JA02 ○	IC173Q01JA03 ○	IC173Q01JA04 ○	IC173Q01JA05 ○	IC173Q01JA06 ○
Mathematics subject	IC173Q02JA01 ○	IC173Q02JA02 ○	IC173Q02JA03 ○	IC173Q02JA04 ○	IC173Q02JA05 ○	IC173Q02JA06 ○
Science subject	IC173Q03JA01 ○	IC173Q03JA02 ○	IC173Q03JA03 ○	IC173Q03JA04 ○	IC173Q03JA05 ○	IC173Q03JA06 ○
Computer science subject, information communication technology subject, computing science subject or similar lessons.	IC173Q04JA01 ○	IC173Q04JA02 ○	IC173Q04JA03 ○	IC173Q04JA04 ○	IC173Q04JA05 ○	IC173Q04JA06 ○

The following statements are about the use of digital resources for school related activities in general (i.e. during lessons or when completing homework).

This school year, how often did you use digital resources to conduct the following activities?

(Please select one response in each row.)

	Never or almost never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day
Create a multi-media presentation with pictures, sound or video	IC174Q01JA01	IC174Q01JA02	IC174Q01JA03	IC174Q01JA04	IC174Q01JA05
Write or edit text for a school assignment (e.g. using Google® Docs™, Microsoft® Word)	IC174Q02JA01	IC174Q02JA02	IC174Q02JA03	IC174Q02JA04	IC174Q02JA05
Find information online about real-world problems or phenomena (e.g. climate change, oil spills, measuring the height of a building)	IC174Q03JA01	IC174Q03JA02	IC174Q03JA03	IC174Q03JA04	IC174Q03JA05
Collect and record data (e.g. using data loggers, Microsoft® Access™, Google® Forms, spreadsheets)	IC174Q04JA01	IC174Q04JA02	IC174Q04JA03	IC174Q04JA04	IC174Q04JA05
Analyse data that you have collected yourself (e.g. using Microsoft® Excel™)	IC174Q05JA01	IC174Q05JA02	IC174Q05JA03	IC174Q05JA04	IC174Q05JA05
Report or share your results from your own experiments or investigations	IC174Q06JA01	IC174Q06JA02	IC174Q06JA03	IC174Q06JA04	IC174Q06JA05
Plan and manage work or projects (e.g. dividing tasks, managing deadlines)	IC174Q07JA01	IC174Q07JA02	IC174Q07JA03	IC174Q07JA04	IC174Q07JA05
Track the progress of your own work projects	IC174Q08JA01	IC174Q08JA02	IC174Q08JA03	IC174Q08JA04	IC174Q08JA05
Collaborate with other students to create digital content (e.g. presentation, etc.)	IC174Q09JA01	IC174Q09JA02	IC174Q09JA03	IC174Q09JA04	IC174Q09JA05
Play digital learning games (e.g. Minecraft©, Duolingo®, SciKids©)	IC174Q10JA01	IC174Q10JA02	IC174Q10JA03	IC174Q10JA04	IC174Q10JA05

The following statements are about the use of digital resources for school related activities in general (i.e. during lessons or when completing homework).

This school year, how often did you use digital resources for the following activities?

(Please select one response in each row.)

	Never or almost never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day
Read or listen to feedback sent by my teachers regarding my work and academic results	IC175Q01JA01	IC175Q01JA02	IC175Q01JA03	IC175Q01JA04	IC175Q01JA05
Read or listen to feedback sent by other students on my work	IC175Q02JA01	IC175Q02JA02	IC175Q02JA03	IC175Q02JA04	IC175Q02JA05
Read or listen to feedback automatically selected for me by an educational software or app	IC175Q03JA01	IC175Q03JA02	IC175Q03JA03	IC175Q03JA04	IC175Q03JA05
Work on drill and practice exercises using an educational software or app	IC175Q05JA01	IC175Q05JA02	IC175Q05JA03	IC175Q05JA04	IC175Q05JA05

The following statements are about the use of digital resources for school-related activities outside of classroom hours.

This school year, how often did you use digital resources for the following activities?

(Please select one response in each row.)

	Never or almost never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day
See my grades or results from specific assignments (e.g. homework or tests)	IC176Q01JA01	IC176Q01JA02	IC176Q01JA03	IC176Q01JA04	IC176Q01JA05
Browse the Internet for schoolwork (e.g. for preparing an essay or presentation)	IC176Q02JA01	IC176Q02JA02	IC176Q02JA03	IC176Q02JA04	IC176Q02JA05
Browse the Internet to follow up lessons (e.g. for finding explanations)	IC176Q03JA01	IC176Q03JA02	IC176Q03JA03	IC176Q03JA04	IC176Q03JA05
Receive or download assignments or instructions (via digital resources) from my teacher	IC176Q04JA01	IC176Q04JA02	IC176Q04JA03	IC176Q04JA04	IC176Q04JA05
Upload my work (e.g. documents or presentations) to a school portal or another platform to share materials with my teacher and/or students	IC176Q05JA01	IC176Q05JA02	IC176Q05JA03	IC176Q05JA04	IC176Q05JA05
Communicate with my teacher	IC176Q06JA01	IC176Q06JA02	IC176Q06JA03	IC176Q06JA04	IC176Q06JA05
Communicate with other students about schoolwork	IC176Q07JA01	IC176Q07JA02	IC176Q07JA03	IC176Q07JA04	IC176Q07JA05
Search for information on school-related activities or assignments	IC176Q08JA01	IC176Q08JA02	IC176Q08JA03	IC176Q08JA04	IC176Q08JA05

How often do you use digital resources for the following in your mathematics lessons or when completing homework?

(Please select one response in each row.)

	Never or almost never	About once or twice a year	About once or twice a month	About once or twice a week	Every day or almost every day	Does not apply
I use digital resources for simple calculations.	IC184Q01JA01	IC184Q01JA02	IC184Q01JA03	IC184Q01JA04	IC184Q01JA05	IC184Q01JA06
I use digital resources to solve equations.	IC184Q02JA01	IC184Q02JA02	IC184Q02JA03	IC184Q02JA04	IC184Q02JA05	IC184Q02JA06
I use digital resources for simulations and modelling (e.g. GeoGebra, The Geometer's Sketchpad (GSP)), virtual laboratories (e.g. Labster).	IC184Q03JA01	IC184Q03JA02	IC184Q03JA03	IC184Q03JA04	IC184Q03JA05	IC184Q03JA06
I use digital resources for coding or algorithm activities (e.g. using Scratch, etc.)	IC184Q04JA01	IC184Q04JA02	IC184Q04JA03	IC184Q04JA04	IC184Q04JA05	IC184Q04JA06

During a *typical* <u>week day</u>, how much time do you spend doing the following leisure activities?

(Please select one response in each row.)

	No time at all	Less than 1 hour a day	Between 1 and 3 hours a day	More than 3 hours and up to 5 hours a day	More than 5 hours and up to 7 hours a day	More than 7 hours a day
Play video-games (using my smartphone, a gaming console or an online platform or apps)	IC177Q01JA01	IC177Q01JA02	IC177Q01JA03	IC177Q01JA04	IC177Q01JA05	IC177Q01JA06
Browse social networks (e.g. Facebook®, Instagram®, Twitter®)	IC177Q02JA01	IC177Q02JA02	IC177Q02JA03	IC177Q02JA04	IC177Q02JA05	IC177Q02JA06
Browse the Internet (excluding social networks) for fun (e.g. reading news, listening to podcasts and music or watching videos)	IC177Q03JA01	IC177Q03JA02	IC177Q03JA03	IC177Q03JA04	IC177Q03JA05	IC177Q03JA06
Look for practical information online (e.g. find a place, book a train ticket, buy a product)	IC177Q04JA01	IC177Q04JA02	IC177Q04JA03	IC177Q04JA04	IC177Q04JA05	IC177Q04JA06
Communicate and share digital content on social networks or any communication platform (e.g. Facebook®, Instagram®, Twitter®, emails, chat)	IC177Q05JA01	IC177Q05JA02	IC177Q05JA03	IC177Q05JA04	IC177Q05JA05	IC177Q05JA06
Read, listen to or view informational materials to learn how to do something (e.g. tutorial, podcast)	IC177Q06JA01	IC177Q06JA02	IC177Q06JA03	IC177Q06JA04	IC177Q06JA05	IC177Q06JA06
Create or edit my own digital content (pictures, videos, music, computer programs)	IC177Q07JA01	IC177Q07JA02	IC177Q07JA03	IC177Q07JA04	IC177Q07JA05	IC177Q07JA06

During a *typical* <u>weekend</u> day, how much time do you spend doing the following leisure activities?

(Please select one response in each row.)

	No time at all	Less than 1 hour a day	Between 1 and 3 hours a day	More than 3 hours and up to 5 hours a day	More than 5 hours and up to 7 hours a day	More than 7 hours a day
Play video-games (using my smartphone, a gaming console or an online platform or apps)	IC178Q01JA01	IC178Q01JA02	IC178Q01JA03	IC178Q01JA04	IC178Q01JA05	IC178Q01JA06
Browse social networks (e.g. Facebook®, Instagram®, Twitter®)	IC178Q02JA01	IC178Q02JA02	IC178Q02JA03	IC178Q02JA04	IC178Q02JA05	IC178Q02JA06
Browse the Internet (excluding social networks) for fun (e.g. reading news, listening to podcasts and music or watching videos)	IC178Q03JA01	IC178Q03JA02	IC178Q03JA03	IC178Q03JA04	IC178Q03JA05	IC178Q03JA06
Look for practical information online (e.g. find a place, book a train ticket, buy a product)	IC178Q04JA01	IC178Q04JA02	IC178Q04JA03	IC178Q04JA04	IC178Q04JA05	IC178Q04JA06
Communicate and share digital content on social networks or any communication platform (e.g. Facebook®, Instagram®, Twitter®, emails, chat)	IC178Q05JA01	IC178Q05JA02	IC178Q05JA03	IC178Q05JA04	IC178Q05JA05	IC178Q05JA06
Read, listen to or view informational materials to learn how to do something (e.g. tutorial, podcast)	IC178Q06JA01	IC178Q06JA02	IC178Q06JA03	IC178Q06JA04	IC178Q06JA05	IC178Q06JA06
Create or edit my own digital content (pictures, videos, music, computer programs)	IC178Q07JA01	IC178Q07JA02	IC178Q07JA03	IC178Q07JA04	IC178Q07JA05	IC178Q07JA06

The following statements are about your views on school rules regarding digital resources

To what extent do you agree or disagree with the following statements?

(Please select one response in each row.)

	Strongly disagree	Disagree	Agree	Strongly agree
Students should not be allowed to bring mobile phones to class.	IC179Q01JA01	IC179Q01JA02	IC179Q01JA03	IC179Q01JA04
Students should not be allowed to bring their own laptop (or tablet device) to class.	IC179Q02JA01	IC179Q02JA02	IC179Q02JA03	IC179Q02JA04
Students should collaborate with teachers to decide on the rules regarding the use of digital devices during lessons.	IC179Q03JA01	IC179Q03JA02	IC179Q03JA03	IC179Q03JA04
The school should set up filters to prevent students from going on social media.	IC179Q04JA01	IC179Q04JA02	IC179Q04JA03	IC179Q04JA04
The school should set up filters to prevent students from playing games online.	IC179Q05JA01	IC179Q05JA02	IC179Q05JA03	IC179Q05JA04
Teachers should monitor what students do on their laptops.	IC179Q06JA01	IC179Q06JA02	IC179Q06JA03	IC179Q06JA04

The next statements are about the quality, credibility and accuracy of information online.

To what extent do you agree or disagree with the following statements?

(Please select one response in each row.)

	Strongly disagree	Disagree	Agree	Strongly agree
I trust what I read online.	IC180Q01JA01	IC180Q01JA02	IC180Q01JA03	IC180Q01JA04
When searching for information online I compare different sources.	IC180Q02JA01	IC180Q02JA02	IC180Q02JA03	IC180Q02JA04
I check the accuracy of online information before sharing it on social networks.	IC180Q03JA01	IC180Q03JA02	IC180Q03JA03	IC180Q03JA04
I discuss the accuracy of online information with my teachers or in class.	IC180Q04JA01	IC180Q04JA02	IC180Q04JA03	IC180Q04JA04
I discuss the accuracy of online information with friends or other students.	IC180Q05JA01	IC180Q05JA02	IC180Q05JA03	IC180Q05JA04
I discuss the accuracy of online information with my parents (or family).	IC180Q06JA01	IC180Q06JA02	IC180Q06JA03	IC180Q06JA04
I try to flag wrong information when I encounter it online.	IC180Q07JA01	IC180Q07JA02	IC180Q07JA03	IC180Q07JA04
I share made-up information on social networks without flagging its inaccuracy.	IC180Q08JA01	IC180Q08JA02	IC180Q08JA03	IC180Q08JA04

The following question is about your experience when browsing online content or using social media.

How upset were you the last time the following situations occurred?

(Please select one response in each row.)

	This did not happen to me	Not at all upset	A little upset	Quite upset	Very upset
Encountering content online that was inappropriate for my age	IC181Q01JA01	IC181Q01JA02	IC181Q01JA03	IC181Q01JA04	IC181Q01JA05
Encountering discriminatory content online (e.g. about race, gender, sexual orientation or physical appearance)	IC181Q02JA01	IC181Q02JA02	IC181Q02JA03	IC181Q02JA04	IC181Q02JA05
Receiving unkind, vulgar or offending messages, comments or videos	IC181Q03JA01	IC181Q03JA02	IC181Q03JA03	IC181Q03JA04	IC181Q03JA05
Information about me was publicly displayed online without my consent	IC181Q04JA01	IC181Q04JA02	IC181Q04JA03	IC181Q04JA04	IC181Q04JA05

To what extent do you agree or disagree with the following statements?

(Please select one response in each row.)

	Strongly disagree	Disagree	Agree	Strongly agree
I am interested in learning more about digital resources.	IC182Q01JA01	IC182Q01JA02	IC182Q01JA03	IC182Q01JA04
I am interested in learning computer programming.	IC182Q02JA01	IC182Q02JA02	IC182Q02JA03	IC182Q02JA04
I am interested in learning digital resources because it could be useful in a job.	IC182Q03JA01	IC182Q03JA02	IC182Q03JA03	IC182Q03JA04

To what extent are you able to do the following tasks when using digital resources?

(Please select one response in each row.)

	I cannot do this	I struggle to do this on my own	I can do with a bit of effort	I can easily do this	I don't know what this is
Search for and find relevant information online	IC183Q01JA01	IC183Q01JA02	IC183Q01JA03	IC183Q01JA04	IC183Q01JA05
Assess the quality of information you found online	IC183Q02JA01	IC183Q02JA02	IC183Q02JA03	IC183Q02JA04	IC183Q02JA05
Share practical information with a group of students	IC183Q03JA01	IC183Q03JA02	IC183Q03JA03	IC183Q03JA04	IC183Q03JA05
Collaborate with other students on a group assignment	IC183Q04JA01	IC183Q04JA02	IC183Q04JA03	IC183Q04JA04	IC183Q04JA05
Explain to other students how to share digital content online or on a school platform	IC183Q05JA01	IC183Q05JA02	IC183Q05JA03	IC183Q05JA04	IC183Q05JA05
Write or edit text for a school assignment	IC183Q07JA01	IC183Q07JA02	IC183Q07JA03	IC183Q07JA04	IC183Q07JA05
Collect and record data (e.g. using data loggers, Microsoft® Access™, Google® Forms, spreadsheets)	IC183Q08JA01	IC183Q08JA02	IC183Q08JA03	IC183Q08JA04	IC183Q08JA05
Create a multi-media presentation (with sound, pictures, or video)	IC183Q09JA01	IC183Q09JA02	IC183Q09JA03	IC183Q09JA04	IC183Q09JA05
Create, update and maintain a webpage or a blog	IC183Q10JA01	IC183Q10JA02	IC183Q10JA03	IC183Q10JA04	IC183Q10JA05
Change the settings of a device or app in order to protect my data and privacy	IC183Q12JA01	IC183Q12JA02	IC183Q12JA03	IC183Q12JA04	IC183Q12JA05
Select the most efficient programme or app that allows me to carry out a specific task	IC183Q13JA01	IC183Q13JA02	IC183Q13JA03	IC183Q13JA04	IC183Q13JA05
Create a computer program (e.g., in Scratch®, Python®, Java®)	IC183Q14JA01	IC183Q14JA02	IC183Q14JA03	IC183Q14JA04	IC183Q14JA05
Identify the source of an error in a software after considering a list of potential causes	IC183Q15JA01	IC183Q15JA02	IC183Q15JA03	IC183Q15JA04	IC183Q15JA05
Break down a problem and represent a solution as a series of logical steps, such as an algorithm	IC183Q16JA01	IC183Q16JA02	IC183Q16JA03	IC183Q16JA04	IC183Q16JA05

Thank you very much for your co-operation in completing this questionnaire!

ICEnd01