1st grade

Interaction

- I know that bullying is forbidden online and in applications.
- I know what to do if I notice that I or others are being bullied online or in applications.

Own production and creative production

- I have studied on different devices (for example, a computer or a tablet) at school.
- I know how to take photos or record videos on a computer or a tablet.
- I know how to record audio on a computer or a tablet.
- I know how to compare things by, for example, size or shape.
- I know how to make observations at school and describe or tell about them.

Practical skills

- I know how to turn a computer and a tablet on and off.
- I know how to use a touch pad, touch screen and mouse.
- I know how to log in and out of a computer, programs and applications.
- I know how to open and close programs, applications and files.
- I know the basics of using a web browser (such as Chrome, Edge or Safari).
- I use both hands to practise my typing skills.
- I know how to give simple instructions to a classmate or a robot and follow the instructions given by others.
- I know what 'media' means.
- I understand that not everything that is online or on social media is true.

Safety and responsibility

- I know how to tell a trusted adult if I see something suspicious online.
- I know that I am not allowed to publish content that is offensive to others (such as messages, images or videos).
- I know that I am not allowed to publish photos or videos of others without permission.
- I do not share my personal information (such as my full name, address, phone number or personal identity code) online or in applications.
- I use the school's devices responsibly and according to the rules.

Helsinki

2nd grade

Interaction

- I know that bullying is not allowed online or in applications and I know what to do if I notice bullying online or in applications.
- I know how to tell about things that interest me in the media.

Own production and creative production

- I have used different software or applications at school.
- I know how to write text in a word processing software (such as Word or Docs).
- I have conducted a small study and used technology in it.
- I know how to make a simple table or graph.
- I know how to tell about how I solve tasks or problems.

Practical skills

- I know how to use Aula when moving to learning environments (such as Classroom) and tools (such as Seppo.io, OmaOps and Typing Quest).
- I know how to name and save a file.
- I know how to make simple edits to text (for example, change the size and colour of a text or copy and paste text between different programs).
- I know how to give instructions to a classmate or a robot and follow the instructions given by others.
- I am familiar with a graphical programming environment (such as Scratch Jr.).
- I am familiar with robots and how to use them.
- I can identify computer-controlled devices (such as automatic lights) at my school and in my surroundings.
- I understand that all media content has a creator.
- I can distinguish between authentic and fictional content.
- I know how to choose an appropriate keyword when searching for information online.

Safety and responsibility

- I know that I am not allowed to publish pictures, videos or text that I have not created online or on social media.
- I understand that published content may remain in circulation online or in applications.
- I follow the age limits for websites and applications.
- I recognise what things and practices in the media please me.
- I know how to take care of my credentials and passwords.
- I am able to limit my screen time.

Helsinki

3rd grade

Interaction

- I know how to send a message, voice message, picture or video on one of the school's devices.
- I know how to communicate respectfully with others about media use and interests in the media.

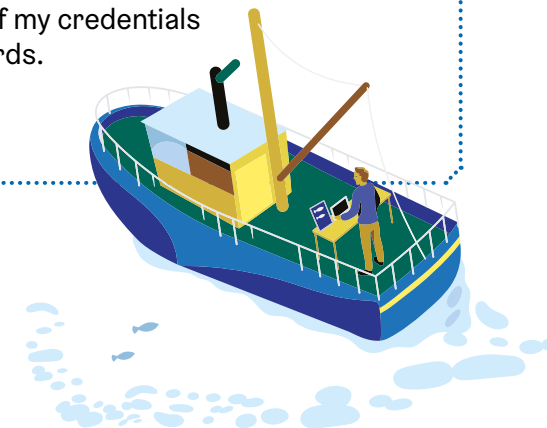## Own production and creative production

- I actively experiment with different devices and software or applications to produce media.
- I can write both informative and creative texts (such as stories) on the computer.
- I know how to combine image, text and sound in my works.
- I know how to make a mind map or other infographic.

Practical skills

- I know how to log in to different learning environments (such as Classroom) and tools (such as Seppo.io, OmaOps and Typing Quest).
- I know how to receive and submit an assignment electronically (for example, in Classroom or Teams).
- I know how to store files on my computer and in a cloud service.
- I know how to use word processing software (such as Word or Docs).
- I know different keyboard commands (such as copy, cut and paste).
- I use both hands when I type on the keyboard.
- I know how to break down problems into pieces, give step-by-step instructions to a friend or a robot and follow step-by-step instructions.
- I know how to use a graphical programming environment (such as Scratch or Scratch Jr.)
- I know what is meant by the terms 'fact', 'fiction' and 'opinion' and can describe their characteristics.
- I know how to choose an appropriate keyword when searching for information.

Safety and responsibility

- I know what to do if I encounter harassment or suspicious content online or in applications.
- I know what copyrights mean.
- In my schoolwork, I only use images, text and videos that I have permission to use.
- I understand that games and social media can affect my well-being (for example, sleep, exercise or alertness).
- I understand that I am personally responsible for the content I create or share.
- I do not share my personal information (such as my full name, address, phone number or personal identity code) online or on social media.
- I take care of my credentials and passwords.

Helsinki

4th grade

Interaction

- I know that bullying is not allowed online or in applications and I know what to do if I notice bullying online or in applications.
- I know how to send messages or comment in the school's programs or applications (such as Classroom or Teams).
- I know how to communicate respectfully with others about media use and interests in the media.

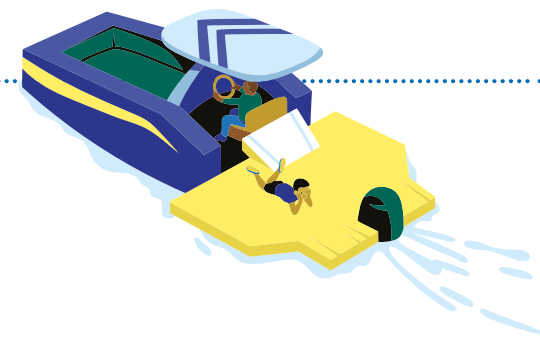## Own production and creative production

- I know how to collaborate with others in a shared digital environment (for example, a shared Google Docs, Slides, Microsoft Word or Powerpoint).
- I know how to present information using a presentation graphics program (such as Powerpoint or Slides).
- I know how to produce creative media content (such as an animation or a short film).
- I know how to solve problems in different ways and evaluate the success of my solutions.

Practical skills

- I know how to use the learning environments used by the school (such as Classroom or Teams).
- I know how to create a systematic folder and file structure.
- I know how to make presentations using a presentation graphics program (such as Powerpoint or Slides).
- I know how to use a loop in a graphical programming environment.
- I can tell about the programmed devices in my environment.
- I know that media content has different purposes (such as entertaining, commercial and informative).
- I can distinguish between entertaining, commercial and informative media content.
- I know how to search for information from different sources (such as websites or news).
- I have a critical attitude towards the information that I find.

Safety and responsibility

- I recognise an unreliable site on the internet.
- I can give an example of the generalisations made by the media.
- I know how to check the age limits of the websites and applications I use and I follow them.
- I am able to limit my screen time and understand the importance of limiting my screen time.
- I make sure that I have a good working position.

Helsinki

5th grade

Interaction

- I know that bullying is not allowed online or in applications and I know what to do if I notice bullying online or in applications.
- I know the different forms of cyberbullying and recognise cyberbullying.
- I know how to send an email.

Own production and creative production

- I know how to use several applications and software to produce media.
- I know how to produce an opinionated piece of media content (such as a review, an opinion piece or a vlog).
- I know how to produce a game or an animation in a graphical programming environment (such as Scratch).
- I can see connections between things and explain how they affect each other.

Practical skills

- I use the school's devices to benefit and enhance my learning.
- I know how to edit the layout of a text in different ways.
- I touch-type.
- I can tell how programmed devices affect my life.
- I know how to check the origin of the text or image source that I am using.
- I know how to search for CC-tagged images in search engines.
- I know how to mark the sources that I use.

Safety and responsibility

- I know what to do when I encounter suspicious or disturbing content online or in applications.
- I recognise an unreliable site on the internet.
- I understand how the content that I create and share affects others.
- I recognise media that seek to influence.
- I know how to check the privacy settings of websites and applications.
- I understand the importance of age limits and follow them.
- I understand how games and social media can affect my well-being (for example, sleep, exercise or alertness).
- I use my devices carefully and update them to make them last as long as possible.
- I make sure that I have an ergonomic working position.

Helsinki

6th grade

Interaction

- I know how to send messages and comment on different devices (such as a computer or a tablet) and programs (such as Classroom, Wilma, Teams).
- I know how to communicate appropriately at school.
- I understand my own opportunities to influence the issues raised in the media.

Own production and creative production

- I know how to develop my own or a group's work and solve problems by brainstorming and testing.
- I know how to use narrative devices in my work (such as a plot structure or angles).
- I utilise my own and others' observations and measurements in my own work and in group work.
- I know how to present information using different programs and methods (for example, graphs).
- I know how to model a simple object using a 3D modelling program (such as Tinkercad).

Practical skills

- I know how to log in to Wilma and use its different functions (for example, messages, attendance and timetables).
- I use an electronic portfolio to monitor and evaluate my own learning.
- I know how to use a spreadsheet program (such as Excel or Sheets).
- I know how to interpret and use tables and graphs.
- I know how to give instructions in a graphical programming environment using different structures (such as repetition and selection structures).
- I understand the principles of social media and their importance.
- I can assess the reliability of the sources that I use.

Safety and responsibility

- I know how to protect myself from security threats in the media.
- I respect the copyrights of others and know how to take care of my own.
- I know what the CC licensing system is.
- I know ways in which the media try to influence.
- I understand that my opinions are influenced by the media content that I consume.
- I understand that data is collected about me when I use the internet and applications.
- I understand how games and social media engage their users.
- I am able to take breaks and limit the use of digital devices.

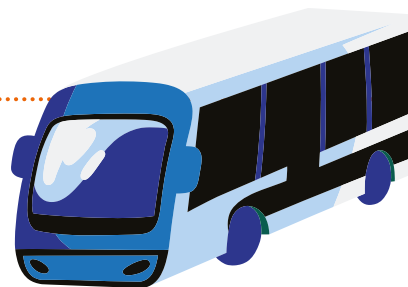**Helsinki**

7th grade

Interaction

- I respect and value diversity when communicating online and in applications.
- I know how to use communications services and the interactive features of software in various ways.

Own production and creative production

- I know how to produce informative media content (such as a report, news story, podcast or article).
- I am able to take into account the purpose and target audience when planning and producing media content.
- I know how to organise, compare and present information in a mind map, graph or table using technology.
- I can read and label information in different ways (for example, in diagrams or as symbols).
- I know how to model objects using a 3D modelling program (such as Tinkercad or SketchUp).

Practical skills

- I know how to edit images with an image processing software.
- I know where to find the special characters I need.
- I know the basics of a text-based programming language (such as Python).
- I am familiar with robots and their meaning in society.
- I can describe the typical features of different media content.
- I can assess different media and media content as sources.
- I am able to utilise a wide range of sources.
- I know how to make a proper and accurate list of references.

Safety and responsibility

- I know what to do when I encounter suspicious or disturbing content online or in applications.
- I know how to act responsibly online and in applications, while using good standards of behaviour.
- I understand how social media can affect my well-being (for example, body image or distorted conceptions)
- I understand how the use of digital devices affects alertness, sleep and brain function.
- I know the principles of copyright and act accordingly.
- I understand the difference between commercial and public media and social media.
- I understand the impact of the production and use of devices on the climate and the environment.
- I make sure that I have an ergonomic working position.

Helsinki

8th grade

Interaction

- I know how to communicate appropriately in different situations (for example, at school and in my free time).
- I can work constructively with others and understand the importance of listening and discussing in communication.
- I respect the habits and preferences of others in the use of media.
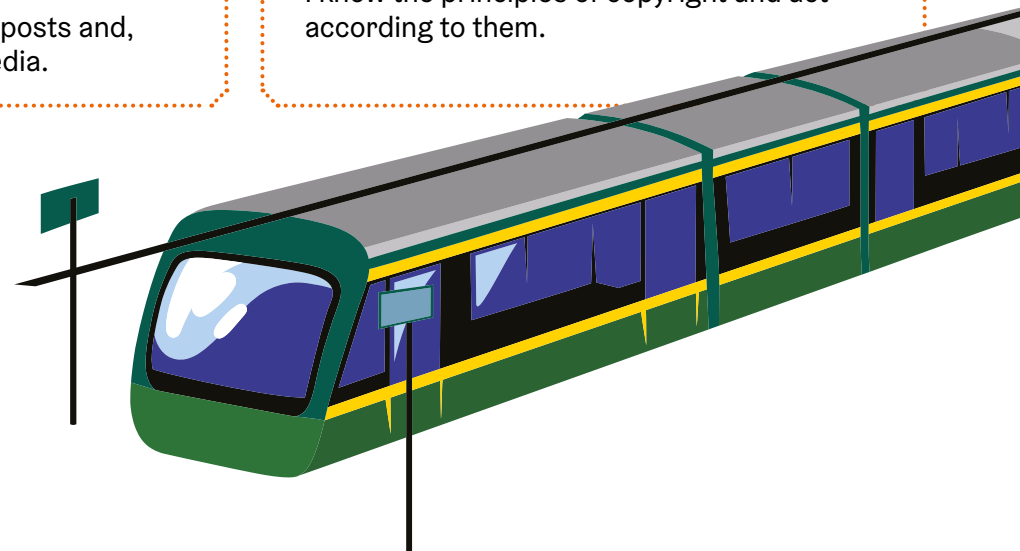
Own production and creative production

- I know how to combine images, video, sound and text in various ways in the media content that I produce.
- I know how to create impactful media content (such as a blog, a subvertisement or an opinion piece).
- I make use of programmatic thinking in different subjects and projects.
- I know how to summarise, structure and simplify large datasets.
- I know how to illustrate information in different ways (for example, graphically or through animation).

Practical skills

- I know how to arrange texts, images and tables.
- I know how to use a spreadsheet program (such as Excel or Sheets) in various ways.
- I touch-type fluently.
- I know what an algorithm is and I know how to make use of them in my learning.
- I know the basics of a text-based programming language (such as Python).
- I know how to interpret images and videos.
- I can assess the truthfulness of different media content.
- I can distinguish between user posts and, for example, news on social media.

Safety and responsibility

- I recognise an unreliable site on the internet.
- I try to use the media to benefit my own well-being.
- I understand that my opinions are influenced by the use of the media.
- I understand the ways in which the media seek to influence.
- I know how to limit the use of my personal data online and in applications.
- I am able to take breaks and limit the use of digital devices.
- I know the principles of copyright and act according to them.

Helsinki

9th grade

Interaction

- I respect and value diversity when communicating online and in applications.
- I can communicate electronically in foreign languages, including internationally.
- I understand my opportunities to influence in the media.

Own production and creative production

- I know how to use different devices, software and applications in various ways when producing media content.
- I know how to justifiably use the ways of producing media content that suit me.
- I know how to produce creative and experimental media content.
- I know how to conduct my own study using technology.
- I know how to design and make my own game or program by programming.
- I know how to analyse problems, evaluate solutions and visualise them in different ways.

Practical skills

- I know how to use a text-based programming environment (such as Python).
- I can tell who specific media content is aimed at.
- I understand the nature and principles of social media.
- I know how to compare the information I find with other sources.
- I know how to search for information from images using reverse image search.

Safety and responsibility

- I know how to protect myself from security threats in the media.
- I understand the detrimental impact of fraudulent information on safety.
- I understand that the media influences values and thinking.
- I know that data is collected about me online and in applications and I know what it can be used for.
- I am aware of the moral and ethical aspects of technology.

Helsinki