

Computer Science- 2nd

Computer Science

Time: September-June

Standards:

Essential Questions

- How can we be good digital citizens?
- Why is it important that we have device-free moments in our lives?
- What kinds of information should I keep to myself when I use the internet?
- What information is OK to have in your digital footprint?
- How are we all part of an online community?
- What should you do if someone is mean to you online?
- How can you give credit for other people's work?
- What are the functions of common software and hardware components of a computing system?
- How can you use a computer to connect to other individuals, places, information, and ideas through a network?
- How do you login into Clever and other school apps?
- What apps can support my learning?

Enduring Understandings

- I can understand that being a good citizen means being safe and responsible online.
- I can take a pledge to be a good citizen.
- I can recognize ways in which digital devices can be distracting.
- I can recognize the kind of information that is private.
- I can understand that I should never give out private information online.
- I can learn that the information shared online leaves a digital footprint.
- I can explore what information is OK to be shared online.
- I can compare and contrast how I am connected to different people and places in person and on the internet.
- I can demonstrate an understanding of how people can connect on the internet.
- I can understand what online meanness can look like and how it can make people feel.
- I can identify ways to respond to mean words online.
- I can explain how giving credit is a sign of respect for people's work.
- I can give credit in my schoolwork form online content.
- I can explain the functions of common software and hardware of a computing system.

8.1.2.NI.1: Model and describe how individuals use computers to connect to other individuals, places, information, and ideas through a network.

8.1.2.NI.2: Describe how the Internet enables individuals to connect with others worldwide.

8.1.2.CS.1: Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preference.

8.1.2.CS.2: Explain the functions of common software and hardware components of computing systems.

8.1.2.CS.3: Describe basic hardware and software problems using accurate terminology.

8.1.2.NI.3: Create a password that secures access to a device. Explain why it is important to create unique passwords that are not shared with others.

8.1.2.NI.4: Explain why access to devices need to be secured.

8.1.2.DA.2: Store copy, search, retrieve, modify, and delete data using a computing device.

8.1.2.AP.1: Model daily processes by creating and following algorithms to complete tasks.

8.1.2.AP.2: Model the way programs store and manipulate data by using numbers or other symbols to represent information.

8.1.2.AP.3: Create programs with sequences and simple loops to accomplish tasks.

8.1.2.AP.4: Breakdown a task into a sequence of steps.

8.1.2.AP.5: Describe a program's sequence of events, goals, and expected outcomes.

8.1.2.AP.6: Debug errors in an algorithm or program that includes sequences and simple loops.

9.4.2.DC.1: Explain differences between ownership and sharing of information

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- I can describe basic hardware and software problems using accurate terminology.
- I can understand how to use computers to connect to other individuals, places and information.
- I can understand how to login and use Clever and other school apps.
- I can secure device access.
- I can search information using search engines.
- I can code a program and know its process.

9.4.2.DC.2: Explain the importance of respecting the digital content of others.
 9.4.2.DC.3: Explain how to be safe online and follow safe practices when using the internet
 9.4.2.DC.4: Compare information that should be kept private to information that might be made public.
 9.4.2.DC.5: Explain what a digital footprint is and how it is created.
 9.4.2.DC.6: Identify respectful and responsible ways to communicate in digital environments.
 9.4.2.TL.1: Identify the basic features of a digital tool and explain the purpose of the tool.
 9.4.2.IML.1: Identify a simple search term to find information in a search engine or digital resource.
 9.4.2.IML.4: Compare and contrast the way information is shared in a variety of contexts (e.g., social, academic, athletic).

Benchmark Assessment(s)

- SWBAT explore, discuss and reflect on being a good Citizen.
- SWBAT explore, discuss and reflect importance of having device free moments.
- SWBAT explore and discuss importance of keeping information private.
- SWBAT code a program.

Other Assessments

- ✓ Teacher observation
- ✓ Class discussions and group work

Materials

- Chromebook/Ipad

SUGGESTED ACTIVITIES

- Digital Citizen Activity
- 📄 Grade 2 - We the Digital Citizens - Lesson Slides
- Digital Citizen Reflection
 - 📄 Grade 2 - We the Digital Citizens - Pause & Think Moment Student Handout
- Device Free Activity and Reflection
 - 📄 Grade 2 - Device-Free Moments - Lesson Slides
 - 📄 Grade 2 - Device-Free Moments - Pause & Think Moment Student Handout
- Keeping Information Private
 - 📄 Grade 2 - That's Private! - Lesson Slides

REINFORCEMENT

- Extra practice on devices.
- Pair students with a partner.
- Repeat activities, as needed.

ENRICHMENT

- Have students create a presentation for their peers.

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- Grade 2 - That's Private! - Keep It Private! Student Handout
- Digital Trails
 - Grade 2 - Digital Trails - Lesson Slides
 - Grade 2 - Digital Trails - Animal Tracks Student Handout
- Your Online Community
 - Grade 2 - Who Is in Your Online Community? - Lesson Slides
 - Grade 2 - Who Is in Your Online Community? - My Online Connections Student...
- Online Meanness
 - Grade 2 - Putting a STOP to Online Meanness - Lesson Slides
 - Grade 2 - Putting a STOP to Online Meanness - STOP Online Meanness Student Hand...
- Giving Credit
 - Grade 2 - Let's Give Credit! - Lesson Slides
 - Grade 2 - Let's Give Credit! - Pause & Think Moment Student Handout
- BrainPop jr video: Parts of a Computer"
- Use Sticky notes to label a computer.
- BrainPopjr video "Emails"
- Practice logging into Clever and district devices.
- Code with various programs.

Suggested Websites

- <https://www.commonsense.org/education/digital-citizenship/lesson/media-balance-is-important>
- BrainPopjr.com

Suggested Materials

- <https://www.weareteachers.com/classroom-technology-anchor-charts/>

Cross-Curricular Connections

ELA-

W.2.2. Write Informative/explanatory texts in which they introduce a topic, use evidence-based facts and definitions to develop points, and provide a conclusion.

W.2.7. Participate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations).

SL.2.1: Participate in collaborative conversations.

SL.2.2. Recount or describe key ideas or details from a text read aloud or information presented orally or through other media.

SL.2.5. Use multimedia; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings.