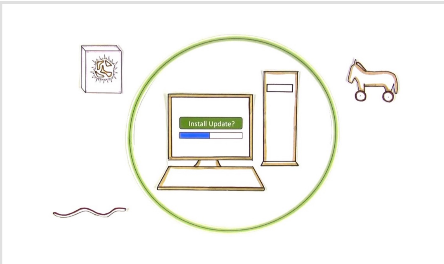
commoncraft

Lesson Plan

This lesson plan is designed to help you teach using a Common Craft video. Use the information below to introduce the video and then follow the video with discussion questions and other resources.



commoncraft.com/video/computer-viruses-and-threats

Computer Viruses and Threats

Explained by Common Craft

This video explains the how computer viruses, worms and trojans work and what you can do to protect yourself.

ISTE Standard:

Digital Citizen, Indicator 2d

Learning Outcomes

- Explain what can happen if a computer is infected with a computer virus
- Define the three types of computer viruses: viruses, worms, and trojans
- Describe how to protect your computer from computer viruses

Discussion Questions

Q #1

What negative consequences might arise if your computer contracts a virus, worm, or trojan?

Q #2

What criteria would you use to assess the trustworthiness of a source?

Knowledge Check Q&A

Q

What are three types programs that threaten the health of your computer?

A

1) viruses 2) worms 3) trojans

Q

What's the best defense against viruses?

A

Anti-virus software to prevent viruses from entering your computer and to remove the viruses when they are found. Avoid opening untrusted attachments or downloadable files.

Q

What's the best defense against worms?

A

Keep your computer software up-to-date at work and at home.

Q

How do you avoid trojans?

A

Download software from only trusted sites. Avoid clicking on links from untrusted sites.

Resources for Learning More

All Things Considered
"An experiment shows how quickly the Internet of things can be hacked" 11/1/2016 (3:34 minutes)

http://www.npr.org/sections/alltechconsidered/2016/11/01/500253637/an-experiment-shows-how-quickly-the-internet-of-things-can-be-hacked

BBC News
Zoe Kleinman
"The computer virus that blackmails you" 12/14/2015

http://www.bbc.com/news/technology-35091714

NC State University
"Ethics in Computing"

https://ethics.csc.ncsu.edu/abuse/wvt/

The Merkle
Eduardo Gomez
"Top 4 types of Malware to watch for" 12/21/2016

http://themerkle.com/top-4-types-of-malware-to-watch-for/