

4 Tech 2020 - Networks and the Internet

Content Area: **Technology**
Course(s): **Technology Education K, Technology Education 2, Technology Education 3**
Time Period: **Marking Period 1**
Length: **8 days**
Status: **Published**

Established Goals/Standards

Please choose the appropriate Goals/Standards from the Standards tab above.

CS.3-5.8.1.5.NI.1	Develop models that successfully transmit and receive information using both wired and wireless methods.
CS.3-5.8.1.5.NI.2	Describe physical and digital security measures for protecting sensitive personal information. Information needs a physical or wireless path to travel to be sent and received. Distinguishing between public and private information is important for safe and secure online interactions. Information can be protected using various security measures (i.e., physical and digital).

Essential Questions

Please add your Essential Questions by clicking on the Lists tab above.

- How do wireless systems work?
- What is required to protect personal information?
- Which information is considered public or private?

Enduring Understanding

Please add your Enduring Understandings by clicking on the Lists tab above.

- Networks transmit information both wirelessly and wired.
- There are systems that protect personal information online.

Content

The network offers the following advantages:

- Networks provide a fast and effective method for sharing & transferring files
- The network version of most software programs are available at considerable savings as compared to buying seat licensed copy for each of them.
- You don't need to load all the software on every computer. Instead, load in the primary server and use on every computer connected to the network.
- Easy connectivity and fast communication

Disadvantages of Network

- The network requires hardware, software which demands high initial setup costs.
- Data security is quite a big concern in networking.
- Regular maintenance of a network needs considerable time and expertise.

The network provides connectivity between computers and devices within a restricted range. In this system, only one entity is controlled or authorized to manage the entire system.

- The Internet is a network of computers at different locations around the world.
- Allows you to send an email message from every location
- Helps you to send or receive files between different computers
- Using the Internet, you can participate in discussion groups, such as mailing lists and newsgroups.
- It allows all small, medium and large size businesses to sell their products with less investment.
- It makes information available worldwide. So there's no need to look for a good book in different libraries, as you can search for information over the Internet.
- It keeps you updated with the latest news and technologies.
- It helps us meet people with the same interests as communities, forums, chats, websites, etc.

Disadvantages of Internet

- The search engines may display some unrelated results.
- Internet could replace face to face collaborations and make us lose the human touch.
- People working on internet-related fields need high speeds.

Modifications and Accommodations

Accommodations and Modifications according to student IEP, 504, I&RS goals, and/or gifted status.

Resources

Please add your Resources by clicking on the Lists tab above.

- BrainPOP
- Google for Education
- Search engines: Google, Bing