

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	<p>Describe physical and digital security measures for protecting sensitive personal information.</p> <p>Information needs a physical or wireless path to travel to be sent and received.</p> <p>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).</p>

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