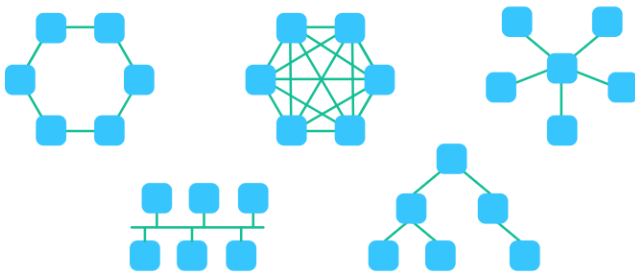


Skill 8.01 Exercise 1

What would your life be like without the Internet? What would you miss the most? What wouldn't you miss at all? What do you hope the Internet will enable in the future?

Skill 8.02 Exercise 1

Consider the network topologies shown below. Which topology would be best suited for the Internet. Explain.



The top row shows the ring, mesh, and star topologies. The bottom row shows the bus and tree topologies.

Skill 8.03 Exercise 1

Identify what each acronym below represents

WAN

DCN

LAN

Based on what you wrote above, what type of network is the Internet?

Skill 8.05 Exercise 1

For each of the physical network connections, identify the type of signal it transmits, along with the advantages and disadvantages of each technology.

	Type of signal	Advantage	Disadvantage
Copper wires			
Wireless			
Fiber-optic			

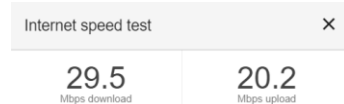
Skill 8.06 Exercise 1

How many wires would be required to send the number 20

What if only 1 wire were available? How could you send the number 20?

Skill 8.07 Exercise 1

Below is a screen shot of the results of an Internet speed test on my home computer,



How many bits per second can I download? How many bits per second can I upload?

I want to download a video that is 1.5 GB... How long will it take?

Skill 8.07 Exercise 2

Josiah used a tool to measure how many bits he could transfer over his home connection to the Internet.
What is the bandwidth?

Second	Bits transferred
1	900
2	800
3	700
4	1100
5	800

Skill 8.07 Exercise 3

Navigate to <http://ping-test.net/> and run the ping test.
For which location did the ping test take the longest? The shortest?

Skill 8.08 Exercise 1

Navigate to
https://www.google.com/search?q=internet+speed+test&rlz=1C1CHBF_enUS915US915&oq=inter&aqs=chrome..69i59j0l5j69i60l2.1156j0j4&sourceid=chrome&ie=UTF-8 and run the speed test. What is your upload speed?
What is your download speed?

AP Computer Science Principles

Ticket Out the Door

Set 8: Connecting Networks
