Name	Period
Skill 12.01 Exercise 1	
What is the Internet?	
How do you use the Internet? Think about your typical day. When are you using the	ne Internet? For what
purposes? What role does it have in your life?	
Skill 12.02 Exercise 1	
Define network topology.	
Skill 12.02 Exercise 2	
Obtain two pieces of string from Pluska.	
Complete the following challenges in your assigned group. For each challenge you	ir group must consider the
following rules,	
- Only two people can be connected by a single string.	
<ul> <li>You can be connected to multiple people at the same time via multiple st</li> </ul>	rings.
Challenge 1: As a group, create a network topology where everyone is connected	to everyone else. How many
strings did you use to create your network?	
Challenge 2: Strings cost money, so create a network topology that uses as few str	ings as possible. How many
strings did you use to create your network?	
Challange 2. Chrisge con he sub which might discount to a sub-free sub-	Cuesta a matrico di tara alla
<u>Challenge 3</u> : Strings can be cut, which might disconnect people from the network.	
that keeps everyone connected even if <u>two</u> of the lines are cut. How many strings	s did you use to create your
network?	

Challenge 4: Consider the guidelines below,

Name

Wireless Fiber-optic

Guideline A:	Strings cost mo	oney, so try to use the least	number of strings possible	
Guideline B:	Strings can be	cut, which might disconnect	people from the network	
Guideline C:	Direct Connect	ions are faster than long pa	ths with indirect connections	5
As a group, c	reate a networ	k that you feel balances all 3	3 guidelines.	
	ength of your t	ork topology your group crea opology?	ated below.	
Skill 12.03 Ex	vercise 1			
		below represents		
WAN				
DCN				
LAN				
Based on wh	at you wrote a	bove, what type of network	did you create with your gro	oup using strings?
What type of	f network is the	e Internet?		
Skill 12.04 Ex	ercise 1			
		work connections, identify t	he type of signal it transmits	s, along with the advantages
and disadvar	tages of each t		T	
		Type of signal	Advantage	Disadvantage
Copper wire	es			

Period

Name		Period
Chill 12 OF Francis	1	
How many wires		d to send the number 20
Trow marry wires	would be required	a to send the number 20
What if only 1 wir	re were available?	? How could you send the number 20?
		,
Skill 12.06 Exercise	e 1	
The flashlight bina	ıry signal test simi	ulates a flashlight turning on and off. Let the letter B represents the off
		the on position. Watch the first test, then decide on the message being sent,
	Test 1	
Now watch the sec	cond test and ded	cide on the message being sent,
•	Test 2	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
		revise test 1? Indicate your revised version below.
Test 1 Re	evised	
 What additional in	nformation let vou	u to revise your message?
- Triat additional in		- to revise your message.
Skill 12.06 Exercis		
		ts of an Internet speed test on my home computer,
Internet speed test	×	
29.5 Mbps download	20.2 Mbps upload	
How many bits pe	er second can I do	ownload? How many bits per second can I upload?
Why might your d	download speed b	pe faster than your upload speed?
, 3 : , : , :	1	,

Name \_\_\_\_\_\_Period \_\_\_\_\_

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

What is latency?
Navigate to <a href="http://ping-test.net/">http://ping-test.net/</a> and run the ping test.
For which location did the ping test take the longest? The shortest?