IT Fundamentals Pro: Chapter 6.4 Internet Connectivity

IT Fundamentals Pro: Chapter 6.4 Internet Connectivity	
Grade	**11/12**
Unit of Study	**Information Technology Fundamentals**
Length of Unit	**84 Min**

Missouri Learning Standards	
15.1202-F5: Install and configure switches and routers on a network	

Unit 6.4: Learning Targets

I can:
• Describe the relationship between ISPs and the internet.
• Compare and contrast internet service options.
• Use a cable modem to connect a small home office network to the internet.
• Explain how successive generations of cellular technologies impact mobile internet speed.
• Describe how to use a virtual private network (VPN) to create a secure connection over the internet.
• Configure a wireless infrastructure for internet connectivity.
• Configure an iPad to use SSL to securely communicate with an email server.
• Connect an iPad to a secure wireless network.
• Configure a VPN connection on a laptop computer with the following settings.
• Connect a laptop to a VPN.

Intervention and Enrichment

Assessments

MLS (Learning Goal)	Description or Location
• 15.1202-F5	Ch. 6 Exam
	ITF+ (FC0-U61) Exam

Vocabulary

IT Fundamentals Pro: Chapter 6.4 Internet Connectivity

Dial up	Digital Subscriber Line (DSL)	Cable	Fiber optic
Satellite	Cellular	Wi-Fi	Virtual Private Network (VPN)
Uplink	Downlink	Hotspot/tethering	

Instructional Materials

Video/Demo
6.4.1 Internet Service Types
6.4.3 Connect a Cable Modem
6.4.5 Configure a Wireless Infrastructure
6.4.8 Manage Mobile Devices
6.4.11 Configure a VPN Connection

Lab/Activity
6.4.4 Connect a Cable Modem
6.4.6 Configure a Wireless Infrastructure
6.4.9 Manage Mobile Devices
6.4.12 Configure a VPN Connection

Additional Instructional Resources

6.4.2 Internet Service Facts
6.4.7 Cellular Technology
6.4.10 Virtual Private Networks

Reflections for Future Revisions