



# **TECHNOLOGY CAMP**

## **DAY 5 : HANDS-ON WITH HARDWARE**

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# **Networking Hardware & Components**

## **Session 2**



**YELLOW CIRCLE INC**  
PO Box 2383  
Elk Grove, CA 95759-2383

**Teacher Lesson Plan**

# Networking Hardware & Components

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## Session Name:

*Networking Hardware & Components*

## Summary:

*In this lesson, we will discuss some network hardware components, have an opportunity to ask questions about networking and hear from experts in the networking field.*

## Time Allotment:

*65 minutes*

## Learning Objectives:

- *Identify Network Components*
- *Describe the Function of Networking Components*

## Supplies:

- *Scrap paper / notepad to take notes*

## Learning Activities:

- **(4 minutes) - Session overview**

*In this lesson, we will discuss some network hardware components, have an opportunity to ask questions about networking and hear from experts in the networking field.*

*Students learn about different types of network components, and be able to describe the functions of networking components*

- **(6 minutes) – Video : Terms You Need to Know in Networking**

*<https://www.youtube.com/watch?v=kn7ei2ENJbl>*

- **(5 minutes) – What is a Modem?**



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*Modem is short for "Modulator / Demodulator." It is a hardware component that allows a computer or other device, such as a router or switch, to connect to the Internet. – techterms.com*

*<https://techterms.com/definition/modem>*

- *Discuss how home and business networks differ.*
- *Discuss how a modem differs from a gateway.*

- **(5 minutes) – What is a Router?**

*This is a hardware device that routes data (hence the name) from a local area network (LAN) to another network connection. A router acts like a coin sorting machine, allowing only authorized machines to connect to other computer systems. Most routers also keep log files about the local network activity. – techterms.com*

*<https://techterms.com/definition/router>*

- **(5 minutes) – What is a Switch?**

*A switch is used to network multiple computers together. Switches made for the consumer market are typically small, flat boxes with 4 to 8 Ethernet ports. These ports can connect to computers, cable or DSL modems, and other switches. High-end switches can have more than 50 ports and often are rack mounted. – techterms.com*

*<https://techterms.com/definition/switch>*

*Discuss how a Router, Switch, and hub differ*

- **(15 minutes) – Networking Ask Me Anything (AMA)**

*Now is your opportunity to ask any questions you may have about networking. Wondering about a specific configuration or how something works? This is your chance to get answers.*

- **(10 minutes) – Networking Expert : Guest 1**



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*Introduce the industry professional who will make a 10-minute presentation and/or answer questions*

- **(10 minutes) – Networking Expert : Guest 2**

*Introduce the industry professional who will make a 10-minute presentation and/or answer questions*

- **(3 minutes) Closing / Wrap-up**

*Identify Network Components*

*Describe the Function of Networking Components*

*Hear from industry professionals*

- **(2 minutes) - What's next?**

*Inform students to head back to the cafeteria for lunch break, and remind them to use the restroom before next session starts.*



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