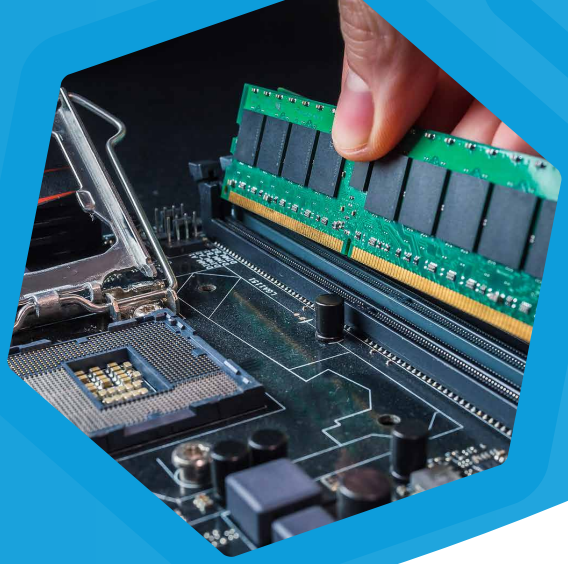

IT Fundamentals

Unit - Hardware

Lesson 2.2.1 - Peripheral Devices

IT Fundamentals Objectives (FC0-U61)

Objective 2.2 - Given a scenario, set up and install common peripheral devices to a laptop/PC.

- Devices
  - Printer, Scanner, Keyboard, Mouse, Camera, External hard drive, Speakers, Display
- Installation types
  - Plug-and-play vs. Driver installation, Other required steps, IP-based peripherals, Web-based configuration steps

Grade Level(s)

8, 9

Cyber Connections

- **Hardware & Software**

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Teacher Notes:

Peripheral Devices

Peripherals

After discussing the different ways to connect peripheral devices to a computer, it is important we know what types of devices we may be working with. ***Printers*** are used to print documents, pdfs, etc. ***Scanners*** are used to upload documents or photos to a computer. (Some machines can both print and scan, as well as copy and fax). ***Keyboards*** allow users to enter keystrokes into a computer. ***Mice*** are another input device that allows users to move or select items on a screen. A ***camera*** can be used to capture video (and audio if it includes a built-in microphone). ***External hard drives*** can be used to store and read data, allowing for easy transfer from one device to another. ***Speakers*** are an output device that provides audio and may be necessary if the ***display***/ monitor does not include a built-in speaker.

Installation and Setup

When attempting to connect a peripheral device to a computer, some are much easier than others. Today's Apple and Windows operating systems (OSs) already include a list of common drivers making it quick to connect some devices instantly. Some devices are known as ***plug-and-play*** devices which once plugged in are good to go because the device comes standard with the OS or the OS understands how to quickly download and install the necessary drivers for proper functionality. However, not every device connects that conveniently. Some require drivers or additional software to be manually downloaded and installed to function properly.

In many business settings, modern peripherals such as network printers can be configured over an IP connection. Some home automation solutions (security, smart lights, etc.) can also be configured over an IP connection. After successfully installing an IP-based peripheral, it can be configured through the OS settings.