Chapter 2 - Hardware
2.3 Storage Devices

Grading:

Notes: _____/10
Lesson Review: _____/15
Hardware Inside & Out _____/35
Application Ext: _____/5
What type of Devices _____ / 35
Total points: _____/100

Essential Question

- Why is it important to rename storage devices?

Competencies

- 6670.50 Demonstrate the use of connectivity devices and peripheral equipment (e.g., portable storage devices, printers, cable modem, and wireless technologies).

Section 2.3 Learning Goals

After completing this section, you will be able to:

- Identify types of storage devices.
- Assign names to storage devices.

Terms

- flash drives
- hard disk drive
- magnetic media
- optical storage
- solid-state drives (SSDs)
- volume label

<u>Types of Storage Devices</u>

- **Magnetic Media**
  - Made of iron oxide-coated disks that can be selectively magnetized to store on-off signals (1s and 0s)
  - _____ storage, can be rewritten
  - **Hard disk drive**, or *hard drive*, is a sealed unit that contains a stack of individual disks which are magnetic media that rotate at a very high speed
  - 5 TB currently

- **Optical Storage**
  - Involves saving data as tiny _____ in foil on a plastic disc
  - Some are ROM, most currently read/write
  - CD
    - Designed to replace cassette tapes and records
    - 700 MB

Name: _____ Block: _____

        - Two basic types: minus (–) and plus (+)
- Optical Storage
    - DVD
        - Originally designed to _____ videotapes
        - 4.5 GB
    - Blu-ray
        - Designed to replace DVDs
        - 25 GB
- **Solid-State Drives**
    - Similar to RAM, but have an integrated circuit to store data as _____ memory
    - **Flash drives** are removable _____ devices and most recognized examples of SSDs
    - Most are removable devices, portable, small
    - Range in size

Naming Storage Devices

- Device drive name
    - Automatically assigned by OS
    - May change for removable devices
    - Used in file
- The name of the device itself is called the **volume label**
    - Assigned by user
    - Meaningful name for easy ID of contents

Chapter 2: Hardware

Section 2.3 Review (page 74)

1. What is the most common example of a magnetic storage medium in a personal computer?

2. What type of storage media are CDs, DVD, and Blu-ray?

3. What type of storage device is a flash drive?

4. Describe a volume label for a storage device.

5. How does optical storage work?

Name: _____ Block: _____

Multiple Choice:

6. An external device connected to a computer is called a:

   a) processor device
   b) CPU
   c) peripheral device
   d) driver device

Completion:

7. The three major technologies for storage devices are _____, _____, _____.

Hardware on the Inside:

- Go to teachers' website and find Worksheet "Computers: Inside & Out – Hardware on the Inside. You will be taking what you know and using the internet to provide pictures and descriptions of the items listed on the worksheet.
  - There are 11 items that you will use the internet to find a picture and insert it into the Word document
  - Then you will use your own words to write a description
  - **You will cite the website you used to get your information.**

Application and Extension:

Identify the at least 5 types of storage devices (past, current, future):

1.
2.
3.
4.
5.

Name: _____ Block: _____

What type of Device? - Input, Output or Storage Devices

Instruction: Use the Internet to look these hardware items up and indicate whether they are **input, output, or storage devices**. What was their purpose?

Name	I/O/S	Description/purpose
Digital Camera		
DVD		
Flash memory		
Graphic Tablet		
Hard disk Drives		
Magnetic Tape Cartridges		
Monitors		
Network Drivers		
Plotters		
Printers		
Projectors		
Robotic controls		
Speakers & Voice Synthesizers		
Touch Display Screen		
Virtual or Internet Storage		
Voice Recognition devices		
Worm Disk		
Zip & Jaz diskettes		