



Computer Applications II

LAP 2- Understanding Computer Hardware

Name _____

Period _____

Date Started _____

Date Completed _____

DoDEA Standards

- ♦PT1e Demonstrate a sound understanding of the nature and operation of technology systems, both hardware and software
- ♦PT1j Know the characteristics and uses of computer hardware

Objectives

- ♦ Differentiate between computer memory and storage
- ♦ Identify the various categories of input devices with examples
- ♦ Identify the components of the CPU
- ♦ Distinguish the differences among RAM, ROM, EPROM, VRAM, and cache
- ♦ Identify the different types of ports found on the back of the computer case

Resource

Title: Computer Technology-Changes, Challenges, and Choices
 Author(s): C. Norman Hollingsworth and Mary Carole Hollingsworth
 Chapter 2: Computers: Understanding Computer Hardware

Time Frame 5 hours

Introduction

Hardware basics should be introduced with the systems theory: input devices, processing components, and then output options. It is important that you understand that the input device used is based on what is being inputted: text, images, sound, even making selections or choices on screen. Output varies by how it will be used and the quality that is necessary. For example, some people will simply view on screen and might only need a monitor, but for sharing hard copies a printer is necessary. However, there are many differences in quality and price with both printers and monitors. You need to be able to compare and make informed selections for both items. Use the figures and diagrams in this chapter to help you better visualize the concepts. For professional and personal use, it is important that you understand computer hardware as well as software.

Assignments

Where appropriate and possible, written answers must be in complete sentences and keyed. Turn in completed activities as directed by instructor.

- _____ **Read:** Pages 26-53
- _____ **Complete:** Multiple Choice questions 1-14 on pages 54-55.
- _____ **Complete:** True False questions 1-14 page 56
- _____ **Complete:** Technology in Context Questions 1, 2, 3, 4, 5 on page 56

Self Assessment - "I/I can . . . "

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Please ask instructor for additional instructions