

Fluency in Computer Technology

LAP 4 – The Components of the System Unit



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.
- ◆ PT1k Know the characteristics and uses of operating, environments, and utilities.

Objectives

- ◆ Describe the components in the system unit.
- ◆ Explain how the CPU uses the four steps of a machine cycle to process data.
- ◆ Differentiate between the various types of memory.
- ◆ Describe the types of expansion slots and cards in the system today.

Resource Discovering Computers 2002 Chapter 4: The Components of the System Unit

Time Frame 5 hours (suggested)

Introduction

This chapter introduces the components in the system unit, describes how memory stores data, instructions, and information, and discusses the sequence of operations that occur when a computer executes an instruction.

Assignments

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

_____ Read *Discovering Computers* (textbook) pages 4.1 – 4.37.

Complete only one of the two “Issues” below.

_____ “Issue: Our Brain Versus The Computer” on page 4.7.

_____ “Issue: On The Go” on page 4.34.

_____ E-Revolution, page 4.37, “E-Resources Applied”. Complete either number 1 (check with your instructor for help and/or modifications of this task) or number 2.

_____ Learn It Online, page 4.41. Complete numbers: 1 “Web Guide”, 2 “Scavenger Hunt”, 3 “Who Wants To Be A Computer Genius?”, 5 “Career Corner” and 6 “Search Sleuth”.

_____ Checkpoint, pages 4.42 – 4.43. Complete: “Label The Figure”, “Matching”, “Multiple Choice”, and “Short Answer”.

_____ In The Lab, page 4.44. Complete number 1 “Installing New Hardware”(answer the three questions), 2 “Setting The System Clock” (answer the three questions), 3 “Using Calculator To Perform Number System Conversion” and 4 “Power Management”.

_____ Web Work, page 4.45. Complete numbers: 1 “Andrew Grove”, 2 “Understanding The Motherboard”, 4 “Newsgroups” and 5 “In The News”..

_____ Complete the Self Assessment below.

_____ Take Chapter 4 Test.

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

_____ describe the components in the system unit.

_____ explain how the CPU uses the four steps of a machine cycle to process data.

_____ identify and explain the various types of memory.

_____ describe the types of expansion slots and cards in the system today.