DEPARTMENT OF EDUCATION- NATIONAL CAPITAL REGION SCHOOLS DIVISION OF PASAY CITY

MODULE IN TLE 9 (COMPUTER SYSTEM SERVICING)

First Grading / Week 1 / Day 3

Name of Student:	Grade and Section:	
Name of Teacher:		

Objectives:

Assemble computer hardware in accordance with established procedures and system requirements.

- Identify the elements of a computer system in assembling computer hardware.
- Distinguish and classify the computer elements in assembling computer hardware. The computer is a second to the computer of the computer elements in assembling computer hardware. The computer is a second to the computer elements in assembling computer hardware. The computer is a second to the computer elements in assembling computer hardware. The computer elements is a second to the computer elements in a second t

Lesson: Elements of a Computer System

WHAT TO KNOW

A computer is an electronic device that performs tasks based on instructions given by the user. The computer system works starting with the data entered by the user, then the computer processes the data and produces output. It is made up of six elements, namely: Hardware, Software, Peopleware, Procedure, Data and Connectivity.

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	Hardware	 Hardware is the physical part of computers that can actually touch. It consists of input devices, output devices and other devices that may be included in a computer hardware setup. Input devices are keyboard, optical scanner, mouse and joystick which are used to feed data into the computer. Output devices such as monitor, printer, projector and speaker are media to get the output from the computer.
2.	Software	Software refers to the program or set of instructions that enable the computer system
		to operate effectively. These include the system software, application software,
		programming languages, and programs.
		System software - it allows the communication between the software and hardware.
		Examples: Windows, Linux, Mac OS, etc.
		Application software - designed to perform specific task. It can be user-designed or
		readymade application software.
		Examples: MS Word, PowerPoint, Adobe Photoshop, AutoCAD, Accounting
2	Peopleware	Software, Payroll Software, Games It refers to the people involved in the data processing operations such as the
٥.	reopieware	programmers, computer operators, system analysts, computer technicians, MIS staff,
		data encoders, and other people who are users and operations of the system.
		System Analyst - People who design the operation and processing of the system.
		System Programmers - Professionals who write codes and programs to implement
		the working of the system
		Computer Operators - People who interact with the computer system, also called the
		end users.
4.	Procedure	Procedures are descriptions of how things are done including the steps for
		accomplishing a result. Procedures are laid in manuals called documentation which
		contains instructions, rules or guidelines to follow when you use hardware or software.
		Hardware-Oriented Procedure – Instruct the hardware components of the system,
		ensures they work smoothly.
		Software-Oriented Procedure – Provides instructions to lunch and run software
		programs
		Internal Procedure – Directs the flow of information and sequences the data.
5.	Data	Data is essentially the raw facts and figures that you input in the computer. The data
		gets processed via the computer system and becomes information, which is
		processed and organized data. Information can then be used for decision making
		purposes.
	A (1.1)	Examples: Text, numbers, sounds, images and videos
6.	Connectivity	This is when the computers are linked to a network. It facilitates sharing of information,
		files and other facilities.
		Examples: LAN cables, Bluetooth, Wi-Fi, Satellites, Internet, etc.

REFERENCES FOR FURTHER ENHANCEMENT

- Book: PC Assembly and Troubleshooting, page 5
- Book: Understanding PC Hardware, page 7
- Book: Information Technology Perspectives, page 29
- YouTube: https://www.youtube.com/watch?v=YV2hH5LkP-8

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Name of Student: Name of Teacher:		Grad	e and Section:	
EXERCISE 1: IDEN	ITIFY		WHAT TO	PROCESS
Directions: Identify	what elements of a cor	mputer system are beir	ng shown in the pictu	re below.
(Hardware, Softwar	e, Peopleware, Data a	ind Connectivity)		
(intel) Xeon*				
1.	2.	3.	4.	5.
1 6.	7.	WAR (WIDE REEN RETWORK) 8.	Windows 7	10.
Office w x x 1 o ∞ p 2	System Analyst	Windows 98	*	
11	12	13	14	15
		LAN	oar J	

EXERCISE 2: CHOOSE FROM THE LIST

Directions: Peopleware refers to the persons who develop or use computer system. Your task is to identify its developer or user of computers being described; choose your answer from the list of user in the box.

18.

Engineers Students System Analysts Doctors	Teachers Governments Computer Technicians Scientists	Graphics Designers Computer Programmers Data Encoders Architects
1. They use cor	nputers in treating the sick.	
2. They use cor	nputers to write codes, creates progr	rams and application software.
3. They use cor	3. They use computers to create graphic design	
4. They use cor	4. They use computers to teach learners better and faster.	
5. They use cor	5. They use computers to do homework and assignment	
6. They use cor	6. They use computers to design the operation and processing of the system	
7. They use to repair the computers when it's not working		
8. They use computers to build houses and machines with better accuracy and safet		es with better accuracy and safety.
9. They use computers to serve the citizens of their country		country
10. They use cor	nputers to encode and process data	•

EXERCISE 3: MULTIPLE CHOICE

Directions: Encircle the letter of the correct answer.

- 1. These are set of guidelines and rules to follow when using the hardware, the software applications, and the data.
 - a. Algorithms
- b. Instructions
- c. Procedures
- d. Programs
- 2. These are the facts and facet of records that we input into the computer.
- b. Files
- c. Record
- d. Word
- 3. It is the physical part of computer which includes the input and output devices.
 - a. CPU
- b. Hardware
- c. Input Unit
- d. Software
- 4. This is when the computers are linked to a network and enables sharing of information and files.
 - a. Connectivity

c. Hardware

b. Data

- d. Software
- 5. People who interact with the computer system, they are also called the end users. a. Computer Operator
 - c. System Analyst

b. Computer Technician

d. System Programmer

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THINGS TO REMEMBER!

Elements of a Computer System

- 1. Hardware physical part of computers that can actually touch (mouse, printer, monitor)
- 2. Software program or set of instructions (System Software or Application Software.
- 3. Peopleware persons who develop or use computer system (Analyst, End User, Programmer, Technician, Encoder, etc.)
- 4. Procedure instructions, rules or guidelines to follow when you use hardware or software.
- 5. Data raw facts and figures that you input in the computer (Text, Numbers, Images, Videos)
- 6. Connectivity sharing of information and files (Bluetooth, Internet, LAN)

EVALUATION: CLASSIFY

Directions: Classify the pictures on each item whether HARDWARE or SOFTWARE. If Hardware, write the components of the device (Input or Output Device). If software, write what type of software is being shown (System or Application Software). The first number is done for you.

Device	Elements of Computer (Hardware/Software)	Software Types or Hardware Components
1.	HARDWARE	INPUT DEVICE
Windows 10 S		
3.		
4. Mac OS		
5.		
6.		
7. X		
8. PDF Adobe		
9. Windows 7		
10.		
	Pren	ared by:

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ANSWER KEY

EXERCISE 1: IDENTIFY

 Hardware 	Peopleware	Procedure	 Hardware 	Peopleware
6. Procedure	7. Software	Connectivity	Software	10. Hardware
11. Software	12. Peopleware	13. Software	Connectivity	15. Hardware
16. Peopleware	17Hardware	Connectivity	19Hardware	20. Peopleware

EXERCISE 2: CHOOSE FROM THE LIST

- 1. Doctors.
- Computer Programmers
 Graphics Designers
 Teachers
 Students

- 6. System Analysts
- 7. Computer Technicians
- 8. Engineers
- 9. Governments
- 10. Data Encoders

EXERCISE 3: MULTIPLE CHOICE

- 1. C
- 2. A
- 3. B
- 4. A
- 5. A

EVALUATION: CLASSIFY Elements of Computer

Elements of Computer (Hardware/Software)	Software Types or Hardware Components
1. HARDWARE	-INPUT DEVICE
2. SOFTWARE	-SYSTEM SOFTWARE
3. SOFTWARE	-APPLICATION SOFTWARE
4. SOFTWARE	-SYSTEM SOFTWARE
5. HARDWARE	-OUTPUT DEVICE
6. HARDWARE	-OUTPUT DEVICE
7. SOFTWARE	-APPLICATION SOFTWARE
8. SOFTWARE	-APPLICATION SOFTWARE
9. SOFTWARE	-SYSTEM SOFTWARE
10. HARDWARE	-INPUT DEVICE