

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:
- Identify and obtain materials necessary to complete the work 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.



Lesson: Elements of a Computer System

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.

1. Hardware	<p>Hardware is the physical part of computers that can touch. It consists of input devices, output devices and other devices that may be included in a computer hardware setup.</p> <ul style="list-style-type: none"> 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	<p>Software refers to the program or set of instructions that enable the computer system to operate effectively. Types of software includes the system software, application software, programming languages, and programs.</p> <ul style="list-style-type: none"> System software - it allows the communication between the software and hardware. <i>Examples: Windows, Linux, Mac OS, etc.</i> Application software - designed to perform specific task. It can be user-designed or readymade application software. <i>Examples: MS Word, PowerPoint, Adobe Photoshop, AutoCAD, Accounting Software, Payroll Software, Games</i>
3. Peopleware	<p>It refers to the people involved in the data processing operations such as the programmers, computer operators, system analysts, computer technicians, MIS staff, data encoders, and other people who are users and operations of the system.</p> <ul style="list-style-type: none"> 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	<p>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.</p> <ul style="list-style-type: none"> 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	<p>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. <i>Examples: Text, numbers, sounds, images, and videos</i></p>
6. Connectivity	<p>This is when the computers are linked to a network. It facilitates sharing of information, files, and other facilities. <i>Examples: LAN cables, Bluetooth, Wi-Fi, Satellites, Internet</i></p>

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>

Grade and Section: _____



WHAT TO PROCESS

EXERCISE 1: IDENTIFY

Directions: Identify what elements of a computer system are being shown in the picture below. (Hardware, Software, Peopleware, Data and Connectivity)



2. _____

4. _____

5. _____



7. _____

9. _____

10. _____



12. _____

14. _____

15. _____



17. _____

19. _____

20. _____

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 users in the box.

Engineers	Teachers	Graphics Designers
Students	Governments	Computer Programmers
System Analysts	Computer Technicians	Data Encoders
Doctors	Scientists	Architects

- _____ 1. They use computers in treating the sick.
- _____ 2. They use computers to write codes, creates programs and application software.
- _____ 3. They use computers to create graphic design.
- _____ 4. They use computers to teach learners better and faster.
- _____ 5. They use computers to do homework and assignment.
- _____ 6. They use computers to design the operation and processing of the system.
- _____ 7. They use computers to repair it when it is not working.
- _____ 8. They use computers to build houses and machines with better accuracy and safety.
- _____ 9. They use computers to serve the citizens of their country.
- _____ 10. They use computers 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.
 - a. Data
 - 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
 - b. Data
 - c. Hardware
 - d. Software
5. People who interact with the computer system, they are also called the end users.
 - a. Computer Operator
 - b. Computer Technician
 - c. System Analyst
 - d. System Programmer

Name of Student: _____
Name of Teacher: _____











Grade and Section: _____

THINGS TO REMEMBER!
Elements of a Computer System

1. Hardware – physical part of computers that can 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
2. 		
3. 		
4. 		
5. 		
6. 		
7. 		
8. 		
9. 		
10. 		

Prepared by:
JONALYN O. ROSARIO
Pasay City North High School
Tramo Campus