

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

MODULE IN TLE 9 (Computer System Servicing)
First Grading / Week 3 / Day 1

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

- Objectives:**
Assemble computer hardware in accordance with established procedures and system requirements.
- *Understand the process of disassembling computer system unit.*
 - *Arrange in sequence the procedures in assembling computer system unit.*




Lesson: Computer Assembly

WHAT TO KNOW




Now that you have the skills in disassembling a personal computer, I believe that you are ready to take another step of this module which is assembling a personal computer. All you need to do is to follow the step by step procedures provided in this module.


Assembling the computer system



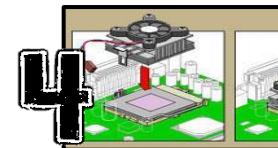
1 Prepare your workplace



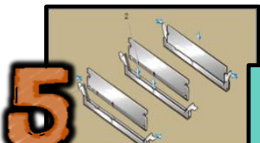
2 Prepare the motherboard




3 Install the CPU



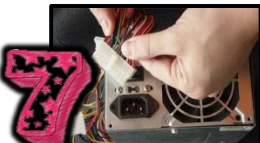
4 Install the CPU FAN



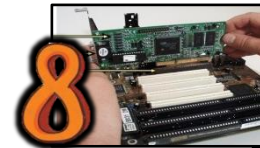
5 Install Memory (RAM Modules)



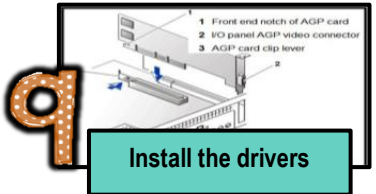
6 Place the motherboard into the case




7 Connect the Power Supply



8 Install Graphics / Video Cards



9 Install the drivers



10 Install the Add-in Cards

Remember the following things before assembling the computer system unit.

- In preparing your workplace you need to consider the following: Take Inventory, make space, make time, prepare grounding protection and have the drivers and tools ready.
- Assemble the computer system when you have enough uninterrupted time and all components are ready. Do not be in a hurry.
- Patience and gentleness are important. Be careful when putting things together
- Keep all your devices in their anti-static bags until such time that you will be installing them as static electricity can destroy components.
- Before you secure the motherboard onto the PC case/chassis, inspect it carefully for any visible defects.
- Always observe to follow all the safety precaution and wear personal protective equipment to avoid necessary damage and injury.
- Handle the component with care. Hold the component such as RAM module by its edge, not in pins.
- In connecting the power supply, it requires attention to detail and can be quite frustrating if you do not go into it with the right attitude.
- When attaching cables, never force a connection.
- When installing the card, hold the card by the bracket, not by the circuit board, chips or card connector.

REFERENCES FOR FURTHER ENHANCEMENT

- Book/Module: TLE ICT Computer Hardware Servicing 9, page 73
- Book: Understanding PC Hardware, page 67
- YouTube: <https://www.youtube.com/watch?v=zxxtXmCZWss>

Name of Student: _____
Name of Teacher: _____

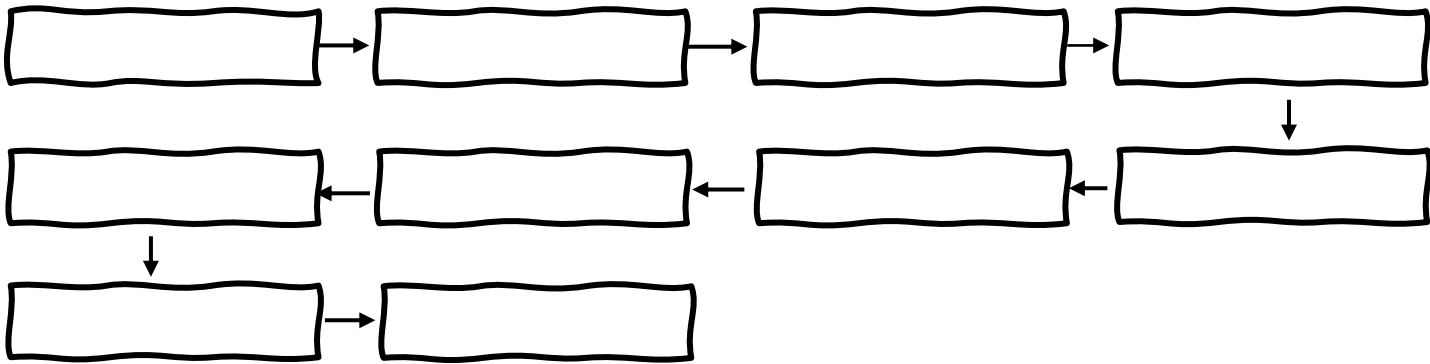
Grade and Section: _____



WHAT TO PROCESS

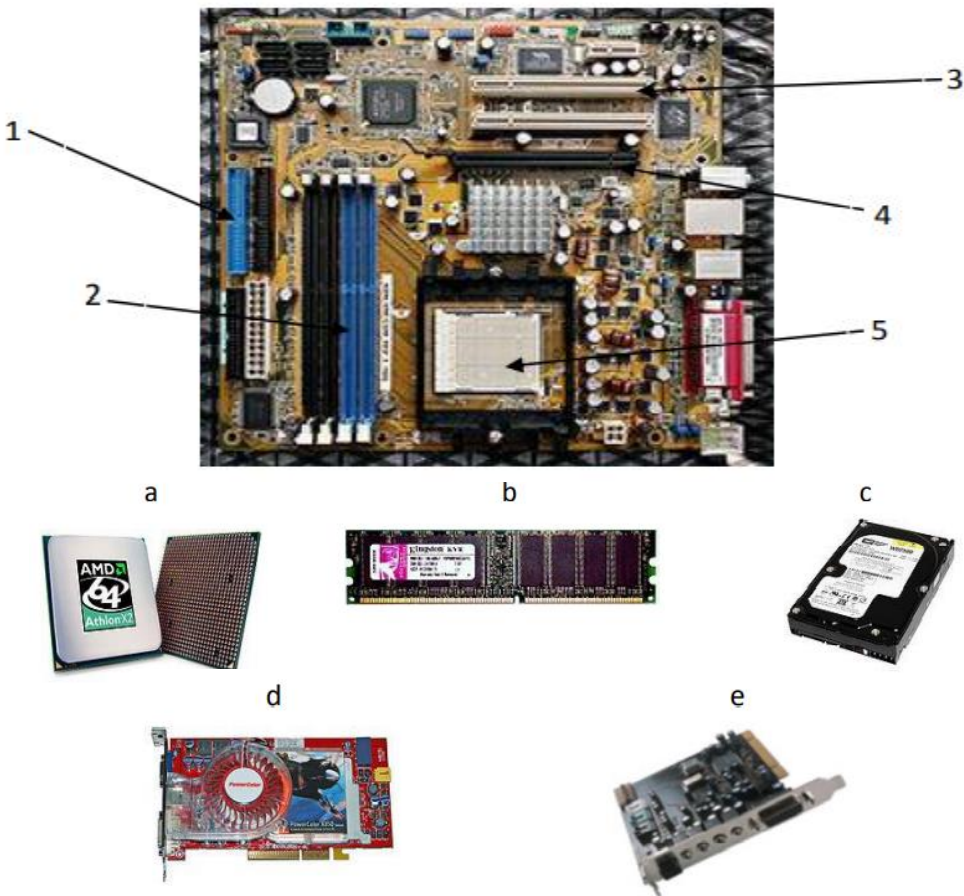
EXERCISE 1: WRITE THE SEQUENCE

Directions: Write the procedure of computer assembly in their proper order.



EXERCISE 2: MATCH UP

Directions: Match the computer components to its proper location in the motherboard



EXERCISE 3: REARRANGE THE PROCEDURE

Directions: Rearrange the procedure in their proper order. Use numbers before their order of precedence.

Personal Computer Assembly

- _____ a. Prepare your workplace
- _____ b. Install the Drivers
- _____ c. Prepare the motherboard
- _____ d. Install Memory or RAM
- _____ e. Install the CPU Fan
- _____ f. Install the CPU
- _____ g. Install the Add-in Cards
- _____ h. Connect the Power Supply
- _____ i. Place the Motherboard into the case
- _____ j. Install Graphics / Video Cards

THINGS TO REMEMBER!

Computer Assembly

1. Before starting computer assembly, make sure to prepare all necessary tools/devices.
2. Assemble the computer when you have enough uninterrupted time and do not be in a hurry.
3. Patience and gentleness are important.
4. Always observe safety precaution and procedure in dealing with computer.



Name of Student: _____
Name of Teacher: _____

Grade and Section: _____

EVALUATION: MATCHING TYPE

Directions: Read each statement carefully and write TRUE if the statement is true, otherwise FALSE.

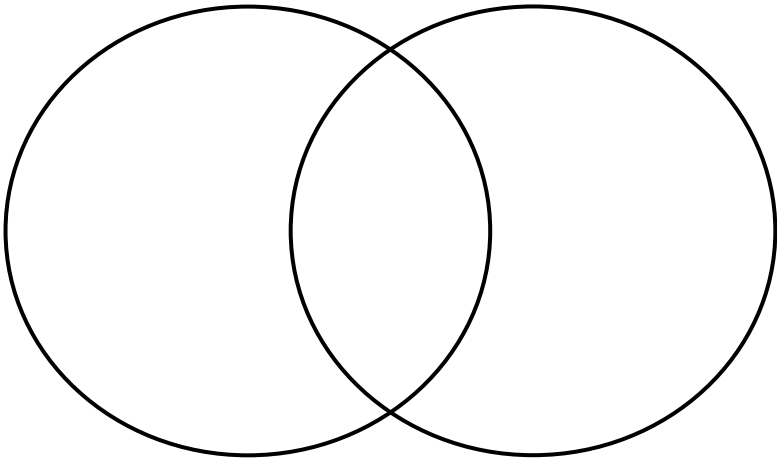
- _____ 1. Keep all your devices and computer components on the floor.
- _____ 2. Prepare grounding protection and have the components and tools ready
- _____ 3. Do not work on a computer when you are wet because you might get electrocuted.
- _____ 4. Follow the safety precaution to avoid unexpected damage and injury.
- _____ 5. Install internal devices of the computer only when it is turned on.
- _____ 6. Hold the component such as memory or RAM module on pins.
- _____ 7. When installing the card, hold the card by the bracket, not by the circuit board or chips
- _____ 8. When attaching cables, always force a connection.
- _____ 9. Applying safety measure when handling tools and computer component is optional to avoid certain damages.
- _____ 10. Before you secure the motherboard onto the PC case/chassis, inspect it carefully for any visible defects

ESSAY

Directions: Express your insights or opinion about the following questions. Write your answers after each question. (20 points each)

- 1. Why do you have to strictly follow the step by step procedure in Assembling Computer system unit?

- 2. In a Venn diagram illustrate the similarity and difference between Disassembling and Assembling system unit.



RUBRICS:

Criteria	Description	Points	Score
Presentation Ideas	Relevant details and quotes enrich the central theme.	6	
Organization of thoughts	The order, structure of information is compelling and moves the reader through the text.	10	
Content	Demonstrates a good grasp of standard writing conventions (e.g., spelling, punctuation, capitalization, grammar, usage, paragraphing) and uses conventions effectively to enhance readability.	4	
TOTAL		20	

Prepared by:

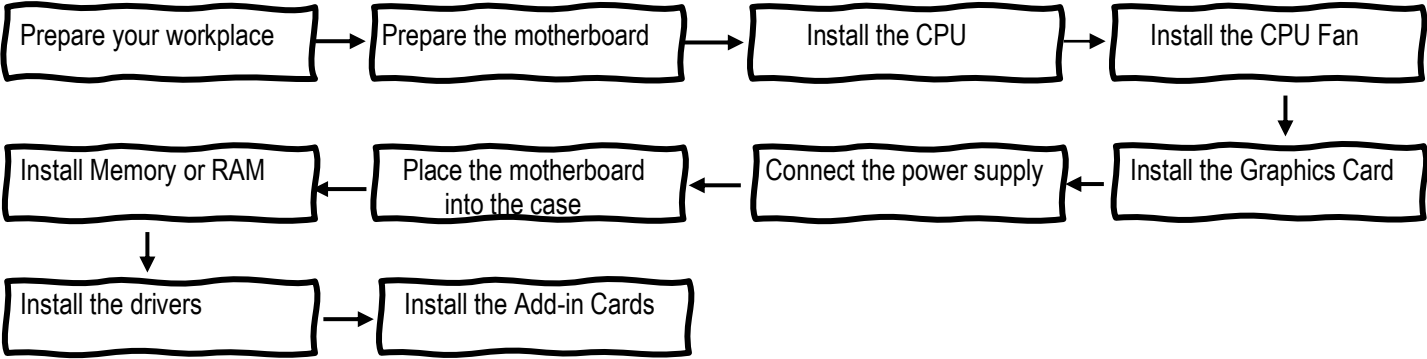
JONALYN O. ROSARIO
Pasay City North High School
Tramo Campus

Name of Student: _____
Name of Teacher: _____

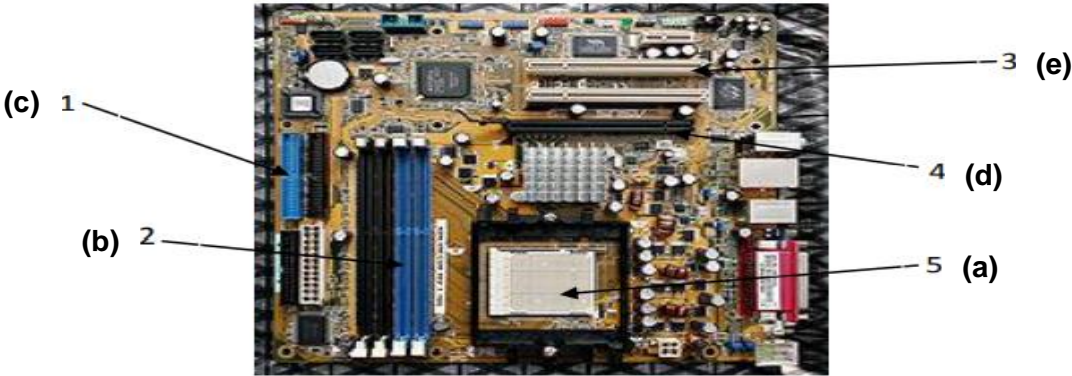
Grade and Section: _____

ANSWER KEY

EXERCISE 1: WRITE THE SEQUENCE



EXERCISE 2: MATCH UP



EXERCISE 3: REARRANGE THE PROCEDURE

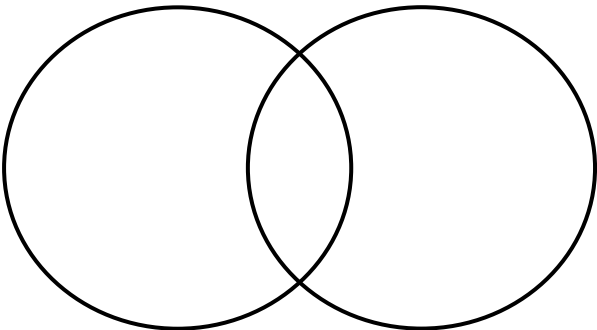
- a. 1
- b. 9
- c. 2
- d. 5
- e. 4
- f. 3
- g. 10
- h. 7
- i. 6
- j. 8

EVALUATION: MATCHING TYPE

- 1. FALSE
- 2. TRUE
- 3. TRUE
- 4. TRUE
- 5. FALSE
- 6. FALSE
- 7. TRUE
- 8. FALSE
- 9. FALSE
- 10. TRUE

ESSAY

- 1. Why do you have to strictly follow the step by step procedure in Assembling Computer system unit?
(Answers may vary due to different insight and opinion.)
- 2. In a Venn diagram illustrate the similarity and difference between Disassembling and Assembling system unit.



(Answers may vary due to different insight and opinion.)