



Republic of the Philippines
Department of Education
National Capital Region
Schools Division Office – Muntinlupa City

**SPECIAL PROGRAM IN TECHNICAL VOCATIONAL EDUCATION (SPTVE)
COMPUTER SYSTEMS SERVICING 10 – QUARTER 3 WEEK 6**

I. Topic: REPLACE COMPONENTS FOR REPAIR OR UPGRADE

II. Objectives:

1. describe repair and upgrade;
2. determine when to perform repair or upgrade; and
3. recognize the importance of repairing and upgrading skills.

III. Brief Introduction

Everyone needs a replacement for upgrade or repair on computer system both on hardware and software in order to boost its speed and performance.

Repair is the act of correcting, fixing, or replacing components of an object to make it function properly. An upgrade is a term that describes adding new hardware in a computer that improves its performance.

REPLACING/UPGRADE

1. Memory upgrade can affect the overall performance of your computer. Increasing the computer's memory can help increase the speed of a computer and loading time. For purposes like game development or video editing, the more the RAM, the better will be the performance.
2. Video card upgrade can be improved the very complex of computer graphics specially when watching a movie or playing games.
3. Monitor upgrade like LCD or flat panel screen doesn't improve the computer's performance but it can increase the size of your display which will make the user enjoyable.
4. Hard disk drive upgrade can increase a disk space capacity and performance. Upgrading the storage drive serves if you are running on low memory space.
5. Broadband upgrade can increase internet connection.
6. Cooling system. Overheating is one of the most common issues. You can install the high-speed fans to prevent your systems from heating.





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IV. Activity 1

Directions: Write “Repair” or “Upgrade” that corresponds to the statement below.

- _____ 1. I cannot save my files to D:/ drive it says out of memory.
- _____ 2. Every time I turn on the computer, I always change the date and time.
- _____ 3. The battery of my laptop is not charging anymore.
- _____ 4. My PC does not have camera but I need it for video conferencing.
- _____ 5. I cannot hear sound when I play music even if the speaker is turn on.

Activity 2

Directions: Read each question carefully and select a letter that will best describe to it.
Write the answer on the space provided for.

- _____ 1. What should be done if a second hard disk drive is not being recognized by a computer system after finding that all the cable connections are in place?
- Check to see if the volumes or logical drives have been formatted
 - Check to see if the hard disk drive has been formatted
 - Reinstall the RAM
 - Check to see if the second hard drive is detected by the BIOS
- _____ 2. If USB ports are not working with any USB devices, which should you do first?
- Test the USB devices by connecting them to a different computer
 - Look at the BIOS to confirm that USB functionality is enabled.
 - Buy new USB wires
 - Check the jumper settings
- _____ 3. What most likely explains a keyboard not working properly, after upgrading the memory, where the touchpad is working?
- The keyboard is malfunctioning
 - The RAM is not installed properly.
 - The RAM is not compatible.
 - The keyboard connector is not seated properly.
- _____ 4. The name of the diagnostic mode operating systems use?





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- a. Safe Mode
c. Correct Mode
_____ 5. Missing slot covers on a computer can cause?
a. over heat
c. power surge
b. Diagnostic Mode
d. Limited Mode
b. EMI
d. ESD

Activity 3

Directions: Choose the word/s in the box that can be replaced/repared, upgraded or both and write it on the designated column.

REPAIR / REPLACE	UPGRADE

CMOS Battery	LCD
RAM	MONITOR
HARD DRIVE	OPERATING SYSTEM
KEYBOARD	MOTHERBOARD
WEB CAM	SOUND CARD





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V. Assessment:

Directions: Write “**True**” if the statement is correct, otherwise write “**False**” on the space before each number.

- _____ 1. When you find a faulty component in your computer, check it with the other computers so that you can make sure whether the fault is in the component or not.
- _____ 2. In case of any device failure, cables of your computer such as data cables, power cable, internal circuitry cables and make sure that all these are plugged in and working fine.
- _____ 3. When your monitor is not turning on after testing it for many times, you need to upgrade it.
- _____ 4. When you notice a software or hardware error in your computer, you need to reformat the whole system.
- _____ 5. Computer do not display warning messages associated to any faulty hardware or software.
- _____ 6. Upgrading is a big learning option and we can learn a lot when we face any kind of troubleshooting in our computer by listing it down.
- _____ 7. Network repairing is the same as hardware troubleshooting.
- _____ 8. This is generally the first or second thing that appears on a computer after turning on the power before the operating system begins to load.
- _____ 9. OS (operating system) loads longer than usual may indicate errors in the hard drive.
- _____ 10. Rebooting your device so it can reconnect with the network and can fix many devices issues.

VI. Reflection

- 1. As a CSS student, can you tell the importance of learning how to repair and upgrade computer?

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