

Hardware Components

WebQuest Description: This webquest consist of valuable information on the hardware components of the computer. This will allow students to be better able to identify the different parts of a computer system and also to know their functions.

Grade Level: 6-8

Curriculum: Technology

Keywords: Cpu, hardware, software, user, input device, output device, storage device and computer system.

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Introduction

This video is about the computer and its hardware components and it gives a brief synopsis of what computer hardware is all about, by introducing their features and functions. Please watch and enjoy! Please click the link above.

Tasks

You will create a powerpoint presentation that will educate your classmates about the hardware components of a computer. By the end of the lesson you should be able to:

1. Define computer and computer system.
2. Identify different types of devices: input, output and storage devices.
3. Understand the main functions that the computer and its components carry out.

Process

You will be divided into groups of fours, consisting of 3 members each. Each group being assigned a specific task.

GROUP INSTRUCTIONS

- 1) Each group should select a group leader.
- 2) Two persons from each group should gather information for the presentation.
- 3) One member of each group will be responsible for organizing information for the presentation.
- 4) A presenter should be selected.

Group 1: Create word document properly organized highlighting key features of computer hardware and their definitions including: The computer, The computer system, Input Devices, out put devices, storage devices and terms associated with memory such as ROM and RAM. A properly labelled picture should accompany each component.

Group 2: Visit YouTube.com to search and download an animated video about the computer hardware. This video should highlight the main features of the computer hardware and their functions.

Group 3: Using Microsoft Excel Spreadsheet Application create a table that list the different types of devices under the appropriate headings: input devices, output devices, storage devices.

Group 4: Using the word document created by group 1, the video downloaded by group 2, and the spreadsheet created by group 3, create a PowerPoint presentation to teach your class mates about the computer hardware.

Evaluation

Given the QUESTION, identify the ANSWER

1. Which part is the "brain" of the computer?
 - Monitor
 - RAM
 - ROM
 - CPU
2. What is the permanent memory built into your computer called?
 - ROM
 - RAM
 - CPU
 - CD-ROM
3. Approximately how many bytes make one Megabyte?
 - One Thousand
 - Ten Thousand
 - One Hundred
 - One Million
4. The capacity of your hard drive is measured in?
 - Gigabytes
 - MHz
 - Mbps
 - 52X
5. Which of the following is not an input device?
 - Keyboard
 - Joystick
 - Monitor
 - Microphone
6. Which of the following is not an output device?
 - Monitor
 - Keyboard
 - Printer
 - Speakers
7. Which device allows your computer to read a CD?
 - CD-ROM drive
 - Hard Drive
 - Modem
8. How much information can a CD (Compact Disk) usually store?
 - 1.4 Mb
 - 650 Mb
 - 150 Mb
 - 10 Mb
9. Which of the following is an operating system you would be using on the computer?
 - Internet Explorer
 - Netscape
 - Microsoft Word
 - Microsoft Windows
 - BIOS
10. BIOS stands for Basic Input/Output System.
 - True
 - False
11. Which of these is not a computer manufacturer?
 - IBM
 - Microsoft
 - Apple
 - Sun
12. What does RAM stand for?
 - Remote Authorization Mechanism
 - Readily Accessed Mailer
 - Random Access Memory
 - Random Authorization Mechanism
13. DOS stands for?
 - Dual Operating System
 - Disk Operating System
 - Dual Organized System
 - Disk Organized System
14. Physical components that make up your computer are known as?
 - Software
 - Operating Systems
 - Web Browsers
 - Hardware
15. Which of the following companies is famous for manufacturing computer processors?
 - Intel
 - Sony
 - Macromedia
 - Corel
16. Which of the following will you require to hear music on your computer?
 - Video Card
 - Mouse
 - Joy Stick
 - Sound Card

Category and Score					Score
				Total Score	

Conclusion

So far you have learnt about the hardware components of the computer. This is where you the student will reflect or look back on the lesson taught and consider what you have learnt. you have learnt that hardware components are the parts of the computer that you can touch physically and see. As you have also learnt the hardware is not only the monitor,CPU and other components outside but also the hard drive that is hidden from the eyes of the user.These questions below are questions that you have learnt to answer.What have you learnt?Do you know the difference between the components of the computer?There fore students the onus is on you to begin to explore the every grow world of information technology that changes everyday. New components are created everyday while others are simply improved to further make life simpler for the user.So continue to explore and broaden you knowledge in the arena of technology.you can visit these sites to learn about the newest changes in the techno world:<http://www.tomshardware.com>/www.anandtech.comwww.cnet.com/‎

Teacher Page

This web quest was created to teach a lesson on the hardware components of hardware for the grade of 6 to 8. This lesson comprises of a full lesson on hardware , their functionality and purpose of each component. It took two days to create this web quest due to the easy access of information and the back ground of being fully educated on the topic of technology. For educators who might use this web quest to teach their students, I strongly advise you to try to be original and allow the students to be the centre of learn where they are responsible for their learning. There are few sites that students can explore and will be able to further understand the topic so encourage full participation as well an individual work.

Standards

Credits

Thanks to the members of the group.

Other