Summer project

Explanation: You have to become familiar with some of the most important and common computer parts. As a pre-requisite to the class, students should already be familiar with the functions of these components. Although the curriculum does go further in-depth of how these components function together to make up a computer, by you having this background information you will be better prepared to understand and relate the new information to already pre-existing knowledge.

Grading

This assignment will be collected the 1st full day of classes. This will carry a weight of 10 points towards your 1st marking period grade.

Use the rubric (attached) as a reference for your grade, Have your sights set on the highest possible grade.

Directions:
1. Purchase a 5 subject notebook (8-1/2"x11") such as this
(http://www.staples.com/Mead-Five-Star-5-Subject-Notebook-8-1-2-inch-x-11/product_503124)
    a. You will use this notebook for class notes
    b. You will use this notebook as a reference manual
    c. You will use this notebook **in this class** for the entire sophomore year
2. Occupy the last 10 pages (both sides if necessary) for the project
    a. Color prints are required for each of the 10 print outs
        i. Attach the print outs of the devices to the notebooks' pages
            + One comparison per page
    b. You have to research **each** of the following computing parts and find:
        i. Pictures of the devices (budget (>$100) and performance (<$100))
        ii. Description/Function of the device in a computer
            + Locate a budget friendly (Entry level) version of the device
                a. Give 4 reasons why you would buy that device
            + Locate a performance (Gaming) version of the device
                a. Give 4 reasons why you would buy that device
        iii. Attribute which physical difference of the devices affect the performance differences

EXAMPLE:
Check out the example page

List of computer parts:
1. CPU
2. HDD
3. MONITOR
4. CASE
5. POWER SUPPLY
6. VIDEO CARD
7. INPUT DEVICE (KEYBOARD/MOUSE)
8. OUTPUT DEVICE (PRINTER/ ALL IN ONE)
9. WI-FI ROUTER
10. OPERATING SYSTEM

Description of the device: (((This is where you describe the reason why that device is part of the computer. You must specify the functions it performs and why it is vital to a computer.)))

Budget friendly (>$100) vs. Performance (<$100.00)

  a. Use the internet or local retailers to locate the parts. Do not use auction sites.

    i. Newegg.com
    ii. Amazon.com
    iii. Tigerdirect.com

Performance Device (((((Give the title that identifies the device))))

➢ ASUS R9280X-DC2T-3GD5 Radeon R9 280X 3GB 384-bit GDDR5 PCI Express 3.0 HDCP Ready CrossFireX Support Video Card

$329.⁹⁹

- Size (Explain the impact that the size has on its performance)
- Functionality (Who would use this type of device? What will it be used for?)
- Compatibility (Write about its connections/ports/slots and its compatibility with other connecting devices in the market.)
- Price (reflect on its price; is the device a good value or not?)

Budget Device (((((Give the title that identifies the device))))

➢ EVGA 512-P3-1310-LR GeForce 210 512MB 32-Bit DDR3 PCI Express 2.0 x16 HDCP Ready Low Profile Video Card

$29.⁹⁹

- Size (Explain the impact that the size has on its performance)
- Functionality (Who would use this type of device? What will it be used for?)
- Compatibility (Write about its connections/ports/slots and its compatibility with other connecting devices in the market.)
- Price (reflect on its price; is the device a good value or not?)

Physical difference ~ Performance difference
It has more HDMI connectors – Allowing for multiple High Definition display support
- It has no VGA support for older monitors
It has bigger fans and more heat sinks which allow for better cooling of the graphical processor (GPU).

RUBRIC FOR SUMMER PROJECT

	0	1	2	3	4	5
ON TIME	Did not hand in the project	The project was 4 days late	The project was 3 days late	The project was 2 days late	The project was 1 day late	The project was handed in on time
FOLLOWED DIRECTIONS	did not follow directions	The student followed very few of the directions and completed them with no attention to detail	The student followed some of the directions and completed them with no attention to detail	The student followed some of the directions and completed them with little/no attention to detail	The student followed all of the directions and completed them with no attention to detail	The student followed all of the directions and completed them with attention to detail
NEATNESS	The project was handwritten and did not follow the expected format	The project is handwritten with misspellings	The project was typed and missing all of the following: a cover page, pictures of the computer components and perfect grammar.	The project was typed and missing two of the following: a cover page, pictures of the computer components and perfect grammar.	The project was typed and missing one of the following: a cover page, pictures of the computer components and perfect grammar.	The project was typed with a cover page, with pictures of the computer components and perfect grammar.
DEPTH OF KNOWLEDGE	The project reflects no knowledge of the components.	The information was superfecial	The information reflected a few very simple facts	The information included in the project reflects some understanding.	The information included in the project reflects complete understanding of the component.	The information included in the project reflects complete understanding of the components. Student used real world application of where the components are used.
Name:						
						x2
					Total grade	