



Custom Computer Scenario Activity - Scenario 2

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Scenario 2

2) Manny is attending University in the fall. She needs a new computer that will be able to load process based office productivity software, check email and access online content without freezing and excessive loading. She also is an avid video gamer. She needs a graphics card that will be economical for her needs. She is willing to spend \$1200 on a custom built PC

The Computer Case : Thermaltake Versa H18 Tempered Glass Black SPCC Micro ATX Gaming Computer Case



Price = \$54,99

Specs:

- Mesh front panel with built-in Blue LED strip
- Compact Micro-ATX form Factor Design with full length PSU cover
- Ideal for AIO solutions up to 240/280mm
- I/O port: USB 3.0 x 1, USB 2.0 x 2, HD Audio x 1
- 2 hidden 2.5" + 2 hidden 3.5" Drive Bay

Why We Chose This Case:

The reason to why we chose this case is because it's basic gaming case. Mandy is a very avid gamer which means she is going to be playing for a long time. This is why we chose a gaming P.C it allows her to play games for a very long time on a very high frame rate. We also chose this because it helps fulfill her basic like the uses of USB, a high quality of audio etc.

The Motherboard: ASUS Prime X470-Pro AMD Ryzen 2 AM4 DDR4 DP HDMI M.2 USB 3.1 ATX Motherboard

Price =199.99



- Powered by AMD Ryzen 2 AM4 and 7th generation Athlon processors to maximize connectivity and speed with NVMe M.2, front panel USB 3.1 Gen2 and Gigabit LAN
- 5-Way Optimization with auto-tuning and Fan Xpert 4 delivers advanced fan controls with an integrated AIO pump header for dynamic cooling. Operating System- Windows 10 64-bit
- Patent-pending SafeSlot features an injection molding process that integrates metal framing for a stronger, firmly anchored PCIe slot built for heavyweight GPUs
- Aura Sync RGB lighting features a nearly endless spectrum of colors with the ability to synchronize effects across an ever-expanding ecosystem of AURA Sync enabled products
- Industry-leading 8-channel HD audio with Realtek S1220A codec delivers a warm, full sound

Why we chose this Motherboard? The reason to why we chose this motherboard is because it's a high end motherboard that can do anything super quick. This motherboard will help make her life anyway easier as it can load and process anything as fast as it can, help make her computer look colourful, help make it harder for it to break and also let her play with the best frames she can ever have.

Processing Chip: AMD Ryzen 7 2700X Processor with Wraith Prism LED Cooler - YD270XBGAFB0X



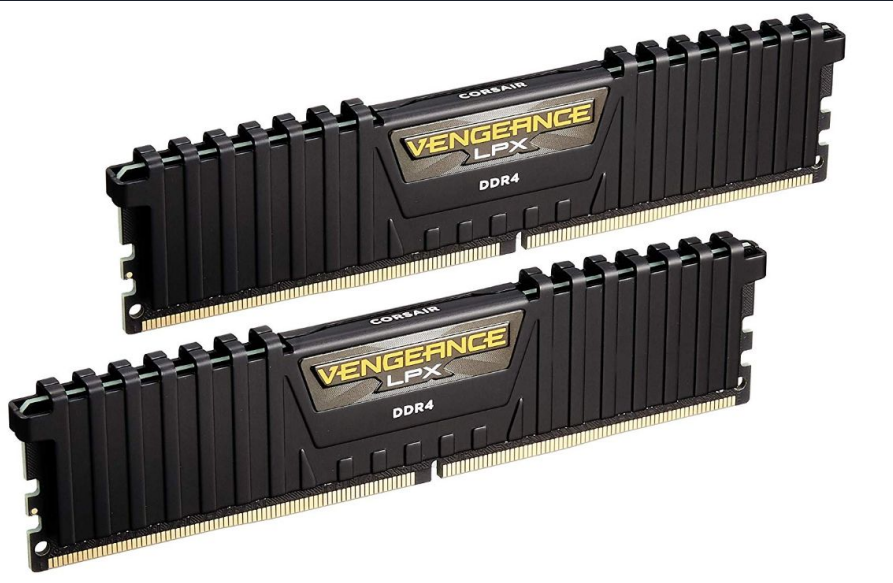
Price = \$279.99

- 8 Cores/16 Threads UNLOCKED
- Frequency: 4.3 GHz Max Boost
- Compatibility : Windows 10 - 64-Bit Edition ,
RHEL x86 64-Bit , Ubuntu x86 64-Bit
- 20MB of Combined Cache
- Socket AM4 Motherboard Required

Why We Chose This Processing Chip

The reason to why we chose this processing chip is because first it's compatible with the Motherboard we currently got, secondly it's compatible with the Operating System we got and third of all it's gives a boost to all how quick it can do things like the amount of Cache is can store up (aka: Future Request which can be done quicker). This will help her as she will most likely visit the same website like google docs. With this processing chip her basic needs will be done quicker than ever.

Memory : Corsair Vengeance LPX 16GB (2x8GB) DDR4 DRAM 3000MHz C15 Desktop Memory Kit - Black (CMK16GX4M2B3000C15) XMP 2.0



Price =102.99

- Designed for high-performance overclocking
- Designed for great looks
- Performance and Compatibility.
- Low-profile heat spreader design
- Compatible with Intel 100 Series, Intel 200 Series, Intel 300 Series, Intel X299

Why We Chose This Memory Kit?

The reason to why we chose this Memory Kit is because of how much it helps with the Motherboard. The memory kit is compatible with the Motherboard which is one of the reason why we chose this memory kit. Another reason is because it's a low-profile heat spreader design. Pretty much the more RAM she has on the computer the less hotter the monitor will be from overheating and shutting down. This will help because she a vivid gamer which means she going to be playing a lot for long periods of time which means her computer has to be cooled for a long period of time. This memory kit will help do that which is the other reason to why we chose it.

Graphics Card: Gigabyte GV-N1030OC-2GI

Nvidia GeForce GT 1030 OC 2G Graphics Card



Price =124.99

- Powered by GeForce GT 1030
- Integrated with 2GB GDDR5 64bit memory
- Supports HDMI 4K@60Hz. Digital max resolution- 4096 X 2160
- Smooth 4K video playback and HTML5 web browsing
- One-click overclocking via AORUS Graphics Engine
- Form Factor: ATX

Why We Chose This Graphics Card?

The reason to why we chose this Graphics Card is because first of all, it can process and do basic things very quickly. Second of all, the GeForce, GeForce helps let games run more smoothly. But most importantly is can handle videos in the highest quality ever. We believe that since she's in University she might want to watch videos based on her course but since these videos might be in bad quality, she can up it as high as she can just to understand what she's seeing.

Hard Drive:Western Digital 1TB 3.5" 7200 RPM SATA III 64MB Cache Desktop Hard Drive (Blue)



Price =54.99

- Easy backup and upgrade
- Wd blue hard drives have a multitude of features including third generation SATA interface with 6 GB/s transfer rate, plus rock solid performance and ultra-cool and quiet operation
- Whisper Drive technology minimizes noise to levels near the threshold of human hearing
- Softseek technology streamlines read/write seeking algorithms, resulting in more efficient operation
- 1 TB capacity holds up to 200,000 digital photos, 250,000 mp3 files and 120 hours of hd video
- Form Factor - 3.5 inches
- 2 year limited warranty

Why We Chose This Hard Drive?

The reason to why we chose this Hard Drive is because it can hold a huge amount of photos, mp3 files which can hold 120 hours of hd videos. This can also be easy backup and upgraded if needed. We believe she will need all this stuff for her University and all the things to come, this will allow her to be set for the future too.

Operating System: Windows 10 Pro 64 Bit System Builder OEM | PC Disc



=119.99

- Note: OEM and OEI are the same thing The Start menu is back and better than ever so you can expand and customize it Key Included
- Windows 10 OEM is intended for pre-installation on a new PC and cannot be transferred to another computer once installed NOTE: Installation is only possible when using a clean (blank) machine with no other prior version of Windows already installed Product ships in a white envelope Product Key is below scratch off Microsoft label

Why We Chose This Operating System?

The reason to why we chose this system is because it one of the most up tech things we can get for her. This operating system will allow her to use the most up tech things and allow her to do her basic needs in the highest capability.

A Computer Monitor: Acer SB220Q bi 21.5" Full HD (1920 x 1080) IPS Ultra-Thin Zero Frame Monitor (HDMI & VGA Port)



=118.05

- 21.5" Full HD (1920 x 1080) Widescreen IPS Display
- AMD Radeon FreeSync Technology
- Refresh Rate: 75Hz - Using HDMI Port
- Zero-Frame Design | Ultra-Thin | 4ms Response Time | IPS Panel
- Ports: 1 x HDMI & 1 x VGA

Why We Choose This Computer Monitor?

The reason to why we choose this computer monitor is because it has a decent size monitor. We believe that it will perfectly fit on her desk, not making it harder for to move it around and also being the being the best it can be for its size.

Mouse And Keyboard: Mechanical Keyboard and Mouse Combo RGB GaHavit Mechaniming 104 Keys Blue Switches Wired USB Keyboards with Detachable Wrist Rest, Programmable Gaming Mouse for PC Gamer Computer Desktop



=49.99

- **[Gaming Keyboard and Mouse]**Both keyboard and mouse with RGB lighting effect, 14 backlit modes gaming keyboard and 7 color effect gaming mouse, creates a cool and colorful game atmosphere to enhance the excitement of the game.Best for pc games.
- **[Mechanical Keyboard]**With all-Metal Panel and floating keys design, the keys of keyboard trigger sensitively, all 104 keys have individual switches with full n-key rollover and anti-ghosting.
- **[Programmable Mouse]**Gaming mice with 6 DPI levels available from 800/1600/ 2400/ 3200 / 4000/ 4800 DPI, can easily adjust the DPI to match the mouse speed instantly for different game scenarios.
- **[Keyboard Mouse Combo]**Ergonomic keyboard with detachable wrist rest and skin-friendly surface mouse,plug and play, and you could download the driver for mouse from:<http://www.havit.hk/downloads/> .
- **[Keyboard and Gaming Mouse]**Compatibility with Windows 2000/Vista/Win7/Win8/Win10/MAC/Linux for gaming pc.♥18 Months Warranty♥

Why We Chose This Mouse And Keyboard?

The reason to why we chose this keyboard and mouse is because she is an avid gamer. This is one of the things that an avid gamer needs to play her games in the best capability.

Bonus: DualShock 4 Blue Camo Controller - PlayStation 4 - Blue Camo Edition



=74.00

- Precision Control: The feel, shape, and sensitivity of the DualShock4's analog sticks and trigger buttons are enhanced to offer players absolute comfort and control for all games on PlayStation 4.
- Sharing at your Fingertips: The addition of the Share button makes sharing your greatest gaming moments as easy as a push of a button. Upload gameplay videos and screenshots directly from your system or live-stream your gameplay, all without disturbing the game in progress.
- Innovative Features: Revolutionary features like the touch pad, integrated light bar, and built-in speaker offer exciting ways to experience and interact with your games and its 3.5mm audio jack offers a practical personal audio solution for gamers who want to listen to their games in private

Why We Chose This As A Bonus?

The reason to why we the controller is because she is an avid gamer, she will be able much more games because of this controller.

Why We Chose All Of This Equipment

We configured this PC setup to be the most suited to her needs. Everything is all compatible it is the highest performing setup we can get within her budget. This setup is the optimal to performing under large work loads. In addition to performing under large loads she has the option to game on the side. Thank for choosing our pc setup we hope you like the bonus gift that we left you alongside our amazing PC.



**TECH
CHAP**



Link For Each Item

https://www.amazon.ca/Thermaltake-Versa-Tempered-Gaming-Computer/dp/B079G3TNDM/ref=sr_1_6?keywords=A+computer+case&qid=1568386337&s=electronics&sr=1-6 = \$54.99

https://www.amazon.ca/ASUS-Prime-X470-Pro-Ryzen-Motherboard/dp/B07C57Q1XH/ref=lp_1233058011_1_17/130-7431064-3254819?s=pc&ie=UTF8&qid=1568384725&sr=1-17&th=1 = \$199.99

https://www.amazon.ca/AMD-Ryzen-Processor-Wraith-Cooler/dp/B07B428M7F/ref=pd_bxgy_147_img_2/142-5547236-0597711?encoding=UTF8&pd_rd_i=B07B428M7F&pd_rd_r=24a3a544-4178-40b0-b323-64e385782f8a&pd_rd_w=fFsN1&pd_rd_wg=aCdMj&pf_rd_p=a62e2918-d998-4bbb-8337-35aac776e851&pf_rd_r=E0EZTCZA5BTJQ9X0BAFA&psc=1&refRID=E0EZTCZA5BTJQ9X0BAFA = \$279.99

https://www.amazon.ca/Corsair-Vengeance-3000MHz-Desktop-Memory/dp/B0134EW7G8/ref=pd_bxgy_147_img_3/142-5547236-0597711?encoding=UTF8&pd_rd_i=B0134EW7G8&pd_rd_r=24a3a544-4178-40b0-b323-64e385782f8a&pd_rd_w=fFsN1&pd_rd_wg=aCdMj&pf_rd_p=a62e2918-d998-4bbb-8337-35aac776e851&pf_rd_r=E0EZTCZA5BTJQ9X0BAFA&psc=1&refRID=E0EZTCZA5BTJQ9X0BAFA = \$102.99



Link For Each Item

https://www.amazon.ca/Gigabyte-GV-N1030OC-2GI-Nvidia-GeForce-Graphics/dp/B07646VQ6T/ref=sr_1_4?cr_id=2EA8MHCX8YO45&keywords=graphics+card&qid=1568385605&s=electronics&sprefix=gr%2Celectronics%2C152&sr=1-4 = \$124.99

https://www.amazon.ca/Western-Digital-Cache-Desktop-Drive/dp/B0088PUEPK/ref=pd_bxgy_147_img_2/142-5547236-0597711?encoding=UTF8&pd_rd_i=B0088PUEPK&pd_rd_r=59d20af8-e271-42fe-9a92-3ba2ac161cf7&pd_rd_w=LxhS2&pd_rd_wg=Xoqfe&pf_rd_p=a62e2918-d998-4bbb-8337-35aac776e851&pf_rd_r=WSBK N93JN3ZF03XAS7S4&psc=1&refRID=WSBKN93JN3ZF03XAS7S4 = \$54.99

https://www.amazon.ca/Wind%D0%BEws-System-Builder-PC-Disc/dp/B07RXK2QX9/ref=sr_1_3?crid=DI4NG92UJFN2&keywords=operating+system&qid=1568386480&s=electronics&sprefix=opper%2Celectronics%2C145&sr=1-3 = \$119.00



Link For Each Item

https://www.amazon.ca/Acer-SB220Q-Ultra-Thin-Frame-Monitor/dp/B07CVL2D2S/ref=sr_1_1?keywords=monitor&qid=1568386823&s=electronics&sr=1-1 = \$118.05

https://www.amazon.ca/Mechanical-Keyboard-Keyboards-Detachable-Programmable/dp/B07QS6MG8B/ref=sr_1_8?keywords=mouse+and+keyboard+combo+gaming&qid=1568387324&s=electronics&sr=1-8 = 49.99

https://www.amazon.ca/DualShock-Jet-Black-Controller-PlayStation/dp/B07JKVHYWC/ref=pd_cp_147_1?pd_rd_w=52Nwm&pf_rd_p=64a84aa4-b549-4445-9bf3-48bdeed5f24a&pf_rd_r=09DTSMCEC752D5WYSEP6&pd_rd_r=467309fc-a2cf-45a2-948e-36e976e33577&pd_rd_wg=Kh67N&pd_rd_i=B01LBH9IL = 74.00