

## Marqui Joshua Cenar

### Lab - Research a Hardware Upgrade

#### Introduction

Use the Internet, a newspaper, or a local store to gather information about hardware components. Your customer's computer currently has one module of 2 GB of RAM, a 500 GB hard disk drive, and a PCIe video adapter card with 256 MB of RAM. Your customer wants to be able to play advanced video games.

#### Instructions

##### Step 1: Research memory options.

Shop around, and in the table below list the brand, model number, features, and cost for two different 8 GB modules of DDR3.

Brand and Model Number	Features	Cost
Kingston Hyper Fury	8GB, 1600Mhz	₱520–₱1,200
Crucial	DDR3, 1600Mhz	₱1,200–₱1,500

Question:

Based on your research, which RAM would you select? Be prepared to discuss your decisions regarding the RAM you select.

*I would prefer the Kingston hyper fury due to its practical price, trusted, and it is commonly used by people here where I'm from.*

##### Step 2: Research hard disk drive options.

Shop around, and in the table below list the brand, model number, features, and cost for a 3 TB 7200 rpm SATA 3 hard disk drive and a 500GB or 1TB solid state drive (SSD).

Brand and Model Number	Features	Cost
Samsung 870 EVO MZ-77E1T0B/AM	1 TB, up to 550 MB/s speeds, and durable/energy efficient	₱1,399
Seagate or Seagate ST3000DM007	7200 RPM, 256 MB cache	₱2,800–₱5,000

Question:

Based on your research, which hard disk drive would you select? Be prepared to discuss your decisions regarding the hard disk drive you select.

*Based on my research and experience, I would choose seagate as a hard disk drive because it's the only one I ever bought and tried myself, and it is surprisingly reliable regardless of the model*

### Step 3: Research video adapter card options.

Shop around, and in the table below list the brand, model number, features, and cost for two different PCIe video adapter cards with at least 1 GB of RAM.

Brand and Model Number	Features	Cost
ASUS Phoenix GT PH-GT1030-O2G	2 GB GDDR5 VRAM	₱4,200
NVIDIA GeForce GT 1030	2 GB GDDR5 VRAM, 1506 Mhz	₱3,800

Question:

Based on your research, which video adapter card would you select? Be prepared to discuss your decisions regarding the video adapter card you select.

*Based on pure research, the ASUS Phoenix is the safer option for this category. It's basically a more trusted and reliable version of my other given brand, though it's not cheaper, other models of it has a cheaper price and can vary from different stores.*