



Advanced Project

Building a Gaming PC (60 marks)

The Project Brief

Your task is to build a PC to be used to play online computer games.

Gaming requires a powerful computer system so you will have to find components with a very good specification. A large high resolution monitor is recommended for gaming.

You have been given a budget of £2000 to purchase the following.

- a tower case
- all the necessary components to fit inside the case
- a blu-ray player
- a wireless network card
- a 25" LED, wide-screen monitor
- a programmable keyboard and mouse
- surround sound speaker system and sound card
- surround sound headset
- an operating system
- a computer game of your choice (it must have been released within the last 12 months)



The Report

Your task is to search for all the required hardware and software and then write up a report on your choices.

Your report should include the following pages:

1. A cover page including a title and your name.
2. An index page listing all the hardware and software you are going to purchase.
3. A page for each of your purchases.
Each page should include
 - a heading
 - a picture,
 - the price,
 - a brief description and specification,
 - evidence that the purchase is compatible with other components
 - a justification for your purchase
4. A page listing the price of each device and a total for your purchases.
5. A bibliography listing the websites you used during the project.

Some Advice

To ensure that all your components are compatible it's important that you search for them in the correct order.

Start with the motherboard and case. Each component you then find should be checked to see if it can be fitted to the motherboard or if there is enough space for it in the case.

You may also have to accept that you will have to return to some components and change them. An example of this would be searching for a good sound card but then having to change your mind later because it is not compatible with the operating system you've chosen.

Watch your price. You are looking to purchase decent gaming components but you will very quickly go over the £2000 budget if you are not careful.

For the justification your teacher will be looking for a technical reason for choosing the component. Simply saying it "looked good" or had "lots of storage" will not be enough. Make sure you relate your reason back to why you are building the PC - "to play online games".

Ensure your report is complete. Missing components or information will lose you marks.