

Inside the PC



Keywords

CPU—Central Processing Unit. Makes calculations and decisions

RAM—Random Access Memory. Stores the currently running apps

Input— A signal or command sent into a computer

Output—A signal or command that is sent out of a computer to a device

Motherboard—Where all of the hardware components get plugged into

Graphics Card—Additional CPU for high quality graphics & games

PSU—Power Supply Unit. Controls the flow of electricity in a PC

HDD—Hard Disk Drive. Long-term storage for files and apps

SSD—Fast long-term storage for files and apps

Cooling Fan—Stops the CPU from overheating

Monitor—Displays the output from the computer

Speakers—Plays sounds that have been output from the computer

Keyboard—Sends the computer keystroke commands

Mouse—Sends the computer point and click commands

Network Card—Allows you to connect to the Internet using a wire

Wireless Card—Allows you to connect to the Internet without wires

Challenge

Your challenge is to build a gaming PC. You need to consider all of the components required and ensure that they are compatible with each other. In other words, if the Motherboard supports DDR 3 RAM, you cannot use DDR 4, just because it is better! You will need to think about Power Supply, Storage, Graphics Cards, as well as the Input, Processing, Memory and Output devices

Extension

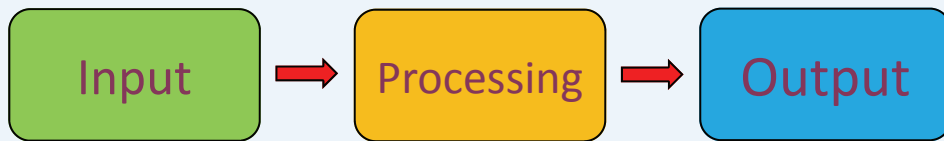
You might want to shop around a little bit and see if you can come up with a more cost effective solution. You might find that your choice of CPU and graphics card has a massive impact on the final price of your build

Top Tips

I hope you are Grounded!
When Static Electricity builds up it can damage the hardware in a computer! Don't forget to touch the case to discharge it!



How a Computer is Structured



Input Devices



Allow you to control a computer by sending a signal **INTO** the computer

Output Devices



The computer sends a signal **OUT** to the device, so that it can function

Processing



The CPU makes calculations and decisions for the computer

Short Term Memory



Other Hardware

