

UNIT 4 - Computer Builds

Group Work

First as a group, we laid all of the internal parts of a dead machine on the table so that we can identify what each component is and we explained what we knew of each part.

The components that we used were:

- ATX motherboard
- Hard drive
- Floppy drive
- Memory 'Dim'
- Processor
- Graphics Card
- IDE Cable
- Power supply

First our tutor explained what each part is for and what it does. Then we were told on how to handle and hold the parts, as there are many ways of handling the hardware's. Also our tutor explained and showed us on how to fit the parts in the machine, and then we did this method individually.

When I did this individually I made some mistakes which was I connected the IDE cable to the wrong slot. Then my tutor pointed out the mistakes that I made, that the IDE cable has to be connected to IDE1 slot.

Individual Work

First I looked at each part carefully so I know what the part is. I then placed each part into the dead machine in the right slots, handling the parts carefully as my tutor showed me. After I placed all the parts into the dead machine I then connected up all the leads to the right slots. After I finished I asked my tutor to check the machine, to see if I had placed the parts in its correct slots and placed them correctly or not. Also to check if I had connected the leads correctly to the right parts and to the right slots, making sure that it is giving power to all of the parts in the machine.

After my tutor checked it, I then tried to examine the dead machine, then I took all the parts out again and I then repeated this by putting all the parts back in again, I did this until I was sure and confident, so when it comes to a live machine I would be sure of what I was doing.

The problem that I had while connecting the parts was when I had to screw it in because I kept dropping the screw in the case.

Group work

First we grounded ourselves by touching any metal and then we unscrewed all the parts and removed them from the dead machine and we disconnected up all the leads. First I disconnected all the IDE and floppy cables, which were connected to the hardware, and to the slots, I removed the graphics card, and then we took out the power sockets, followed by the processor.

Once we took out all the parts we studied the parts and we discussed with our tutor what each part was and what they do.

We then placed all the parts in the dead machine again, while we were doing this we were talking along, saying what each part is and which slot it has to be placed in. First we placed the graphics card into its slot and screwed it in.

The mistakes that I made was connecting the IDE cable to the wrong slot. I then realised and connected it to its right slot, which was IDE1 slot.

Individual Work

First I grounded myself by touching metal (the tower case), to avoid static electricity.

I then placed the processor firmly into the processor slot on the motherboard; secondly I placed the 'Dim' memory by pushing it down firmly into the memory slot, while I was doing this I made sure that I gave equal force on each side so it would be placed and connected correctly into its slot. I then placed the graphics card into the AGP slot. After I connected IDE cable to the hard drive and from the hard drive to the IDE1 slot on the motherboard, next I connected the floppy cable to the floppy drive and into the floppy slot/FDC slot. I then connected the power supply wires to the fan, and picked the right wires which I connected to the hard drive and the floppy drive and I also connected the 20pin power socket to the motherboard from the power supply, Lastly I connected the power supply wire to the fan. I then made sure that every part in the dead machine had power.