



Connecting hardware and Booting the computer

First things to check if you have any problem

- Is the power on at the wall?
- Are all the plugs plugged in correctly? Are the plugs firmly seated?
- Are all the switches turned on - check the system unit, VDU, printer



Connections for the Basic components of a PC system

Screen

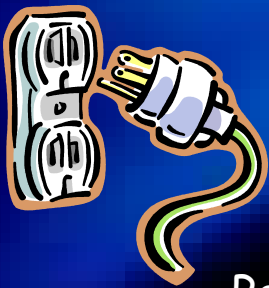


System Unit

Printer

Keyboard

Mouse

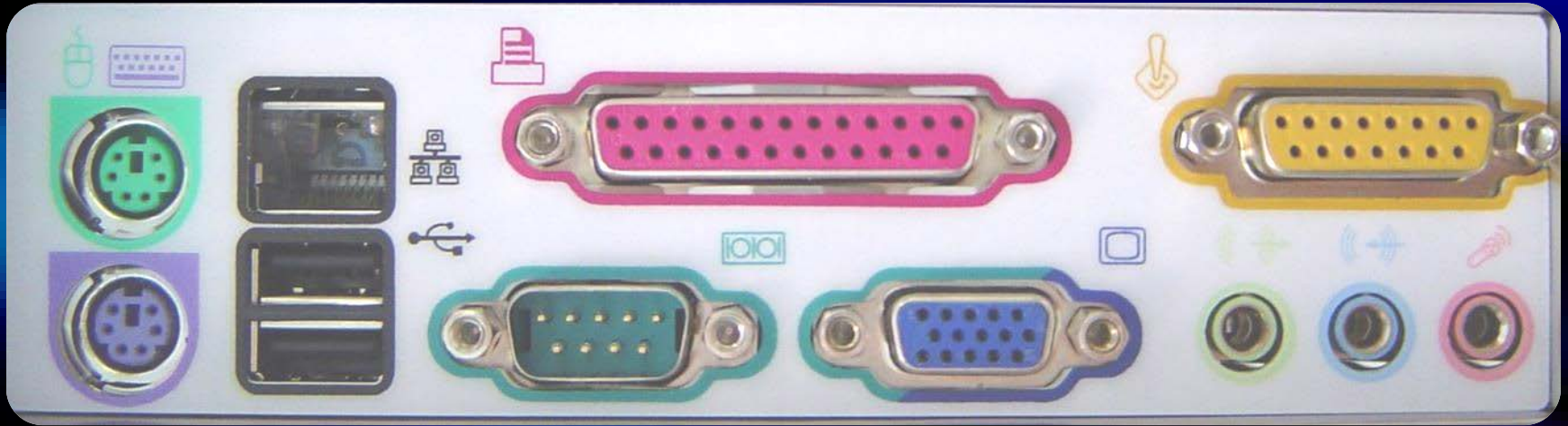


Power supply



Cables

Connecting the devices ...



- cables from the devices plug into the back of the system unit into ports (ports are sockets which devices plug into)
- plug in gently so you don't break the little pins
- cables are marked and colour coded so that you plug the right device into the right port or socket

What goes where?

Mouse

Network
connection

Printer

Joystick



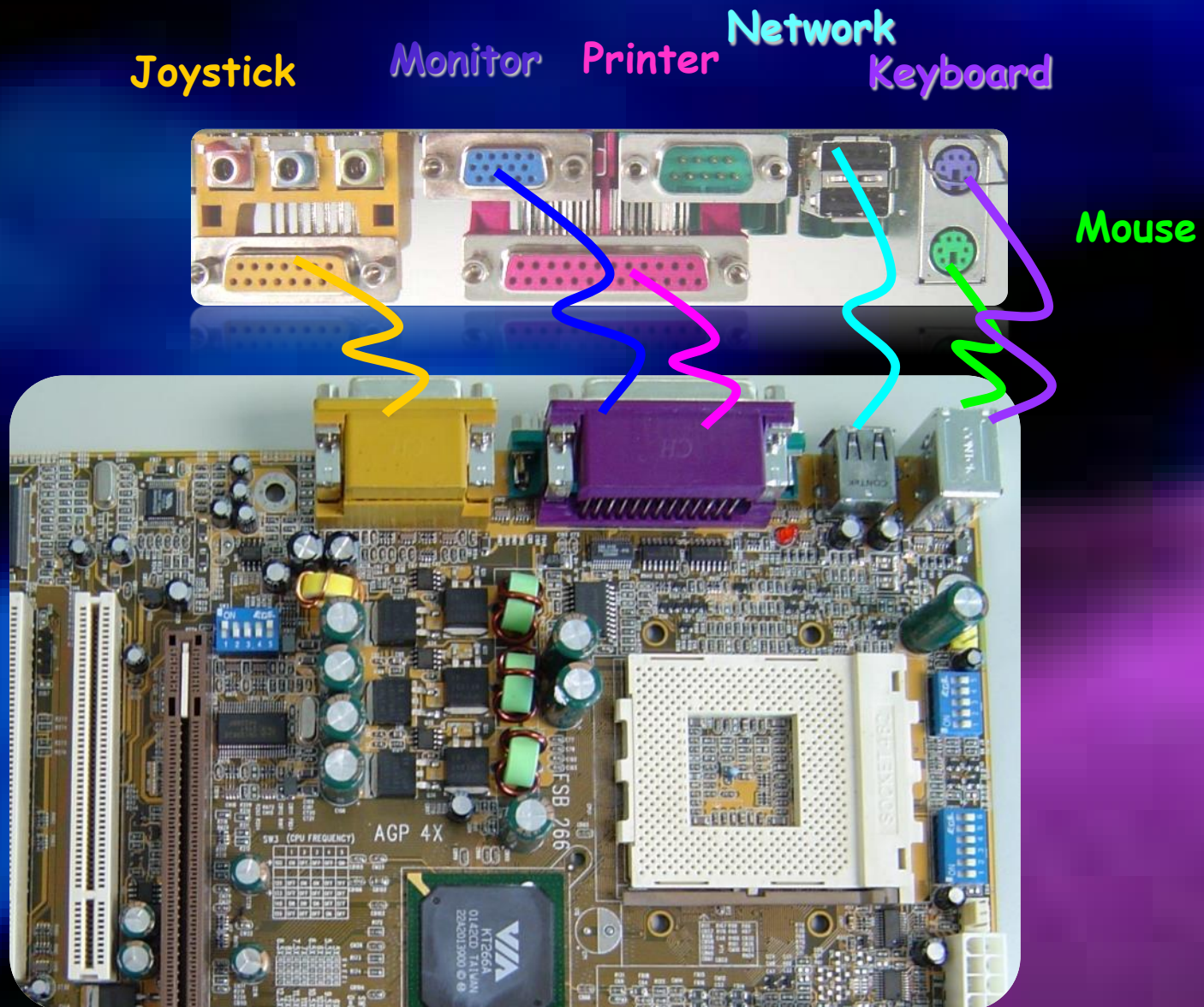
Keyboard

USB connection for
eg memory stick

Screen

- How do we know where they go?
We look for the little pictures next to the ports!!
Note: newer computers have USB mouse and keyboard connections

Cables connect to the motherboard inside the system unit



Work out where each component is connected.
If something isn't working, this is the first thing to check.



What next?

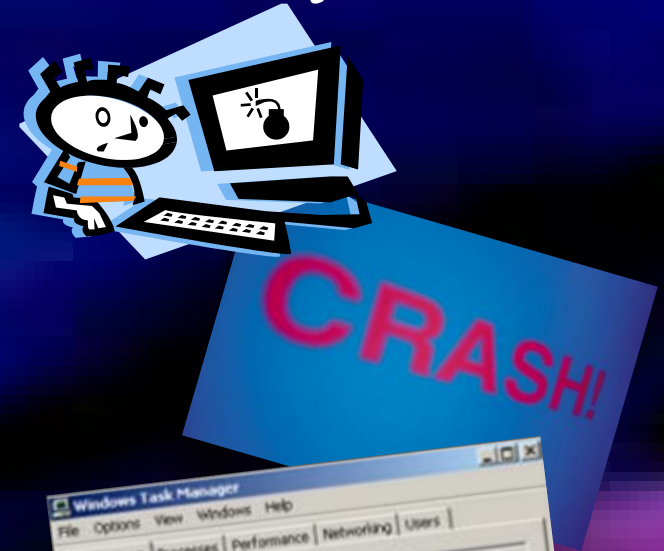
- Often if you re-start or re-boot your computer the problem will disappear
- Let's look at what this means ... and how you do it

Cold boot ...

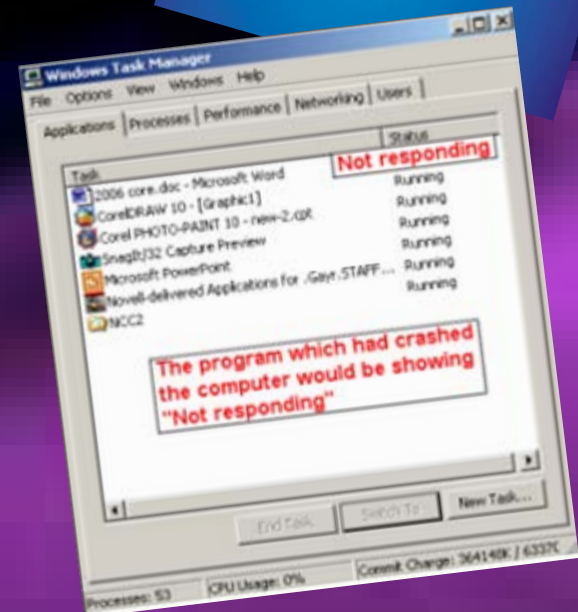


- Computer is switched off and must power up from a “cold” condition using the instructions from ROM (Read Only Memory – loaded at the factory), to make it work
- Next the system software (for example, Windows) loads into RAM
 - Remember what system software does...
 - It takes care of the operation of the computer
 - It enables the user, hardware and application software to interact

Restart (or warm boot) the computer —



- use this when your computer “hangs” - program not responding, keyboard and mouse not working
(this closes all programs, and re-loads the system software (eg Windows)
BUT
does not turn the computer off)



..... HOW DO I DO THIS?

Windows 10

- Click on



- Click on






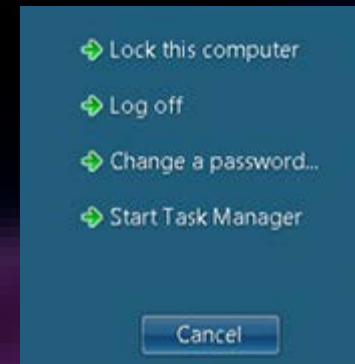
- Choose **Restart**



- Read the message:
all programs will be closed,
Windows will be shut down
and then Windows will start again.
Power **will not** go off, computer **will not** shut down

Windows 7

- Press  + 
and hold both down firmly
- Touch  This may appear
- Repeat this again to reboot



OR Windows 07

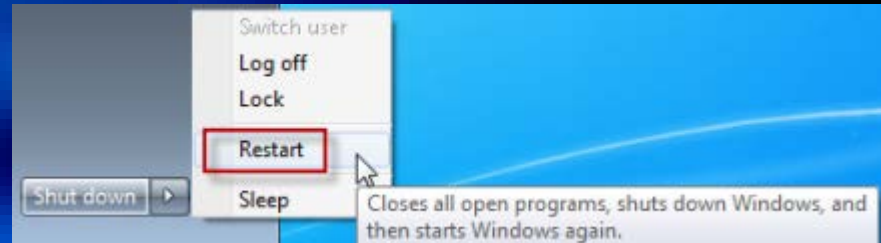
- Click on



- Click on




- Choose **Restart**



- Read the message:
all programs will be closed,
Windows will be shut down
and then Windows will start again.
Power **will not** go off, computer **will not** shut down

OR Windows XP

- Click on 
- Click on 
- Choose **Restart**



Problem not gone – maybe shut
down required and full restart
(cold boot)

Shut Down

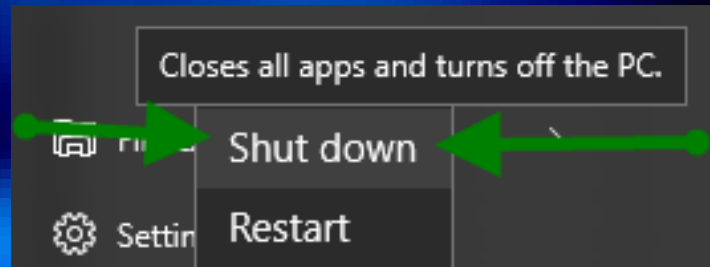
- What it does:
- Closes documents and exits the software programs you are using including any programs that are 'hung' or 'not responding'
- turns the computer off



...HOW do you do this?

Shut Down – Windows 10

- Click on
- Click on
- Choose



- Read the message –
all programs will be closed,
then Windows will be closed down
and then your computer will be turned off.
Power **will** be turned off and your computer **will** shut down

Shut Down – Windows 7

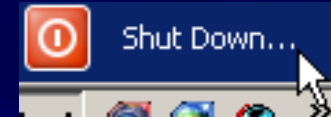
- Click on the  button
- Choose



- Read the message –
all programs will be closed,
then Windows will be closed down
and then your computer will be turned off.
Power **will** be turned off and your computer **will** shut down

Shut Down – Windows XP

- Click on the  button Choose
- Click this down arrow and choose option required



- turn off the On/Off switch IF PROMPTED TO!!!!

Go back to your workbook look at the
study notes