Computing Summer Task

Task 1

A computer system is made up of three main components:

- Input Devices
- The processor/computer
- Output Devices

Research as many different devices as you can find and categorise them appropriately, stating one application for each that it could be used for.

Make sure that you identify the actual device, and not just the method. For example:

- Optical Character Recognition is a method; the input device is a(n optical character) scanner.
- Voice recognition is a method; the input device required is a microphone.

Lay out your results clearly. For example:

Input Devices

Device	An application
Keyboard	Typing in an essay using a word processor
Keypad	Entering a PIN and amount of money required when using a cashpoint (ATM)
etc	

Do this for all the input devices and output devices that you can find.

For the processor/computer, identify the different types there are (for example, personal desktop computer, laptop, etc. Do not list brand names.) For each type, again give an application when it might be appropriate to use.

Task 2

An input device is used to enter data (which has to be “captured”/collected first).
The computer/processor then processes the data, eg at an ATM, the process will test that the customer has enough money to allow a withdrawal of the amount requested.
The output device presents/displays the results/information, eg the motor will be activated to turn at an ATM to push out the requested amount of money.

A doctor’s surgery has installed a computer system to get information from a patient before they go in and see the doctor. The results will help in diagnosis.

For this situation identify the following, giving a clear explanation of each, with an example:

- What data are required
- How the data are captured
- How the data are input
- What processing is required
- What outputs are required
- How they are output
- What is done with the output