

KS3 Computer Science

Computer Hardware: Input and Output Devices

Name:

Class:

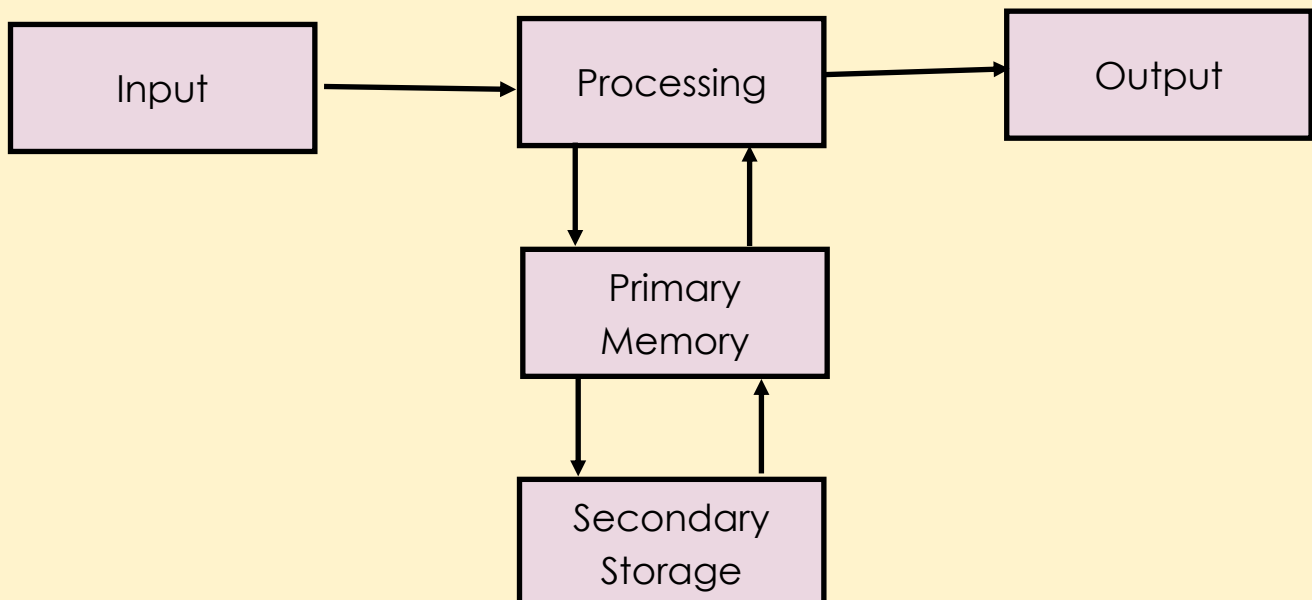
Teacher:

HARDWARE

What ever the type of computer, it will always have the same basic hardware structure

Hardware	Function
Input devices	Allow the user to enter data such as instructions.
Processor	Component for deciding what the instructions mean and what to do - this is the processing of instructions or data.
Output devices	Showing the results of processing to the user data such as instructions
Primary Memory	Store data and/or instructions that are about to be, are being, or have been, processed.
Secondary Storage	Stores data and/or instructions when the computer is switched off so that a computer system or user can come back to the later

Essentially a computer system consists of **INPUTS**, **OUTPUTS**, **PROCESSING** and **STORAGE** devices where data flows around the computer as shown below.



Data, such as instructions and commands or information to be used for calculations, is entered using the **INPUT** devices, **PROCESSED** and **OUTPUT** so the user can see the results.

If you are typing a letter, the input would be the keystrokes on a keyboard for the letters, the processing would be where the letters should go and the output would be the letter on the monitor. If you decide to stop and leave the letter for later, you could store it on a secondary storage device.

If you are still not sure about input and output devices watch this video.



Activity 1: Input and Output

What is your understanding of **INPUT** in relation to computer systems?

What is your understanding of **OUTPUT** in relation to computer systems?

Activity 2: Input and Output Devices

Name these input and output devices and state whether you think they are an input or output device.

Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Activity 2 (Contd.): Input and Output Devices

Name these input and output devices and state whether you think they are an input or output device.

Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Name:

Type:



Activity 3: What devices would you use?

Read the scenarios below.

For each one you need to decide what input and output devices you would need.

HOUSE POINT: If you can find input and out put devices that have not been mentioned in this document for **at least one** of the scenarios.

Scenario 1

You need to create a CV (Curriculum Vitae) for a job application. They require a hardcopy to be sent with your application.

INPUT DEVICES

OUTPUT DEVICES

Scenario 2

You creating a jingle for a radio station DJ.

INPUT DEVICES

OUTPUT DEVICES

Scenario 3

You have been asked to create a front cover for a new novel. When you have finished it needs to printed out to show the author.

INPUT DEVICES

OUTPUT DEVICES

Creative Activity 4: Design your own input or output device.

Think of a problem that could be solved with an input or output device.

What functions would the input or output device need?

What would it look like?

What is the problem?

In this box you need to describe the problem that your input or output device is going to solve.

How will your new device solve the problem?

In this box you need to describe how your device will work and how it will solve the problem.

Name of your new device.

Design your new device.

On a piece of paper or using Microsoft Publisher design your new device. It must show how it works as well as what it looks like.

Investigation: Devices for people with impairments.

The devices below are used by people with visual and physical impairments. You need to find out what they are for and who would use them.

