Input, Process, Output, Memory, Storage

# Identify, Describe & Explain

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| **Identify the model of a computer system.**  Draw the model in the space below using the shape tool which can be found in the insert menu |
| Output device  Input device  Auxiliary device  Processor (CPU)  Main memory |
| **Describe the purpose of each of the types of hardware**   |  |  | | --- | --- | | **Input** | Transfers analogue data to digital data and instructions | | **Memory** | Where the current instructions are stored (RAM) | | **Process** | To process data, executes commands (CPU) | | **Output** | To display information and data (visually or by sound) | | **Storage** | To store data | |
| **Explain why each of the types of hardware in the model are needed to make up a computer system** |
| Because without an input you cannot interact with a computer.  Because without an output you won’t know of the data the computer is processing or showing.  Because without main memory the computer cannot process information.  Because without main Processor the computer cannot process information. |

# Input Devices

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| **What is the purpose of an input device?**  Transfers analogue data to digital data and instructions  For example, mouse movements or pressing a key |

**Use the internet to find 3 examples of input devices. State what it is, include a picture and describe what it does/Explain what it’s used for**

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| --- | --- |
| **Device name and picture** | **Description/Explanation** |
| mouse | Moving the mouse moves it on the screen |
| Keyboard | Pressing different value keys will send different values (letters) as data to the computer |
| webcam | Records videos and takes pictures |

# Output Devices

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| **What is the purpose of an output device?**  To display / convey information to make viewing data easier |

**Use the internet to find 3 examples of output devices. State what it is, include a picture and describe what it does/Explain what it’s used for**

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| **Device name and picture** | **Description/Explanation** |
| Monitor | To visually display data |
| Speakers | To audially display data |
| Printer | To print digital documents onto paper in physical form |

# Processors

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| **What is the purpose of a processor (CPU)?**  To order the data to do things, executes commands. |

**Use the internet to find 2 examples of processors. State what it is, include a picture and describe what it does/Explain what it’s used for**

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| **Device name and picture** | **Description/Explanation** |
| Processor (CPU) | Executes commands in a computer |
| Microprocessor | Executes commands in a smaller devise such as a washing machine |
| APU | A CPU and GPU mix which is very efficient |

# Memory

Note: Flash Memory is actually a type of storage device, not memory

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| **What is the purpose of memory in a computer system?** |
| **What are the differences between RAM and ROM?**  Ram is volatile whereas rom in non-volatile.  Rom cannot ever be changed but ram is ever changing. |

**Use the internet to find 1 example of RAM and 1 examples of ROM. State what it is, include a picture and describe what it does/Explain what it’s used for**

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| **Device name and picture** | **Description/Explanation** |
| DDR4 ram stick |  |
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# Storage Devices

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| **What is the purpose of a storage device?** |

**Use the internet to find 4 different examples of storage devices (Magnetic, Solid State, Hybrid, Optical). State what it is, include a picture and describe what it does/Explain what it’s used for**

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| **Device name and picture** | **Description/Explanation** |
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