**Lesson 1 - Hardware Components**

1. **New Words**

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| multimedia | arithmetic | access | peripheral | sequential |
| versatile | pixel | dimension | frequently | ethernet |

1. **Expansions**
   1. AGP - Accelerated Graphics Port
   2. BIOS – Basic Input Output System
   3. CRT – cathode ray tube
   4. LED – Light Emitting Diode
   5. LCD – Liquid Crystal Display
   6. PCB – Printed Circuit Board
   7. CAD – Computer Aided Design
   8. VGA – Video Graphics Array
   9. SMPS – Switched Mode Power Supply
2. **Important Points**
   1. **Hardware**: The physical components of a computer system which are tangible.
      1. E.g. Internal Hardware and External Hardware
   2. **Software**: It refers to the set of programs, which are required to operate the computer system.
      1. E.g. System software and Application Software
   3. *Difference between internal and External Hardware*

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| **Internal Hardware** | **External Hardware** |
| The Hardware Components which are fixed inside the CPU cabinet | The Hardware components which are connected to the computer, these components are also known as peripherals |
| Motherboard, CPU,RAM ,ROM, SMPS, Heat Sink | Input, Output and Storage Devices |

* 1. Tabular Form of Internal Hardware Components with their usage

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| **Internal Hardware Components** | **Usage** |
| Motherboard | It is also known as the PCB. It holds many crucial components of a computer system. |
| CPU | It is also referred to as a microprocessor. It carries out each instruction of a program in a sequence to perform the basic operations of the system. |
| Disk Drive | It enables to read, write ,delete and modify data on a storage disk. |
| SMPS | It is also known as the power supply unit. It converts the input high voltage electric current to low voltage and supplies it to the motherboard and other parts of the computer |
| Heat Sink | It is designed to disperse the heat generated by the CPU |
| Ports | The cabinet has several connection ports for connecting specific external input or output devices. |

* 1. GO on External Hardware Components of a Computer
  2. GO on types of scanners

1. Fact file
   1. Intel i9 12th gen is the best gaming processor.
   2. The largest capacity of USB 3.0 is 1 TB