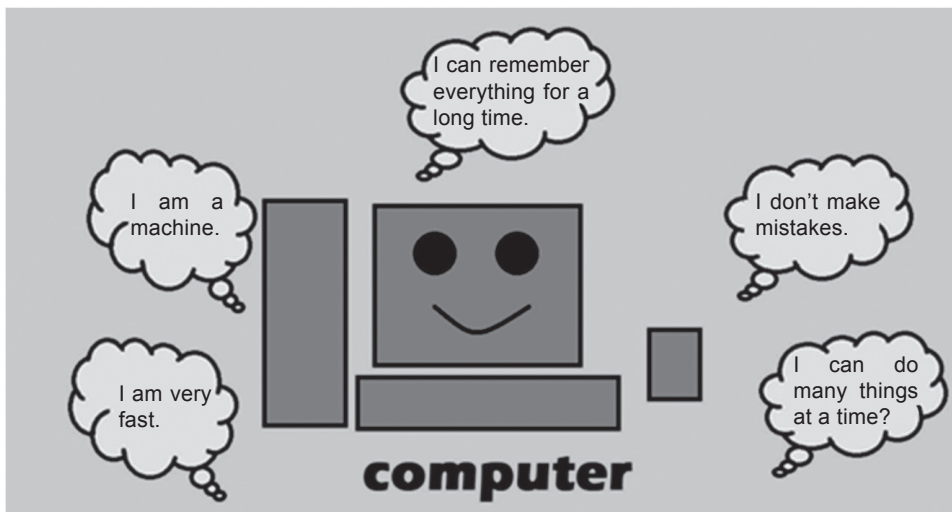# 1 Computer Basics

LESSON PLAN

After this lesson, students will be able to:
- » Describe the main units of the computer system.
- » List the strengths and weaknesses of a computer.
- » List the different ways in which computers are used.
- » List the internal parts of a CPU.
- » Describe the role of ALU.
- » Describe the role of CU.
- » Describe the role of MU.
- » Explain how the computer's CPU works.

WARM UP

Write the different characteristics of the computer in the given clouds that you have learnt in class 2.

CHAPTER NOTES

- » Computer is an electronic machine.
- » It takes input from us, works on it and gives the desired output.
- » It can also store data.
- » Computers have been made by humans. They are powerful but still weaker than us in many ways.
- » Computer follows the IPO cycle for working.
- » Computer is a very fast, accurate, diligent and versatile machine.
- » Computers are used at many places these days for making people's life easier.
- » CPU is the brain of the computer.
- » CPU has three main parts – ALU, CU and MU.
- » The devices through which we enter data and instructions are called input devices.
- » The devices used to store information are called storage devices.
- » Memory cards are small chip-type storage devices.

DEMONSTRATION

Show the use of computers in the following:

- » Making documents
- » Doing calculations
- » Searching for information (Project work)
- » Playing games
- » Listening to music
- » Watching videos
- » Booking a ticket
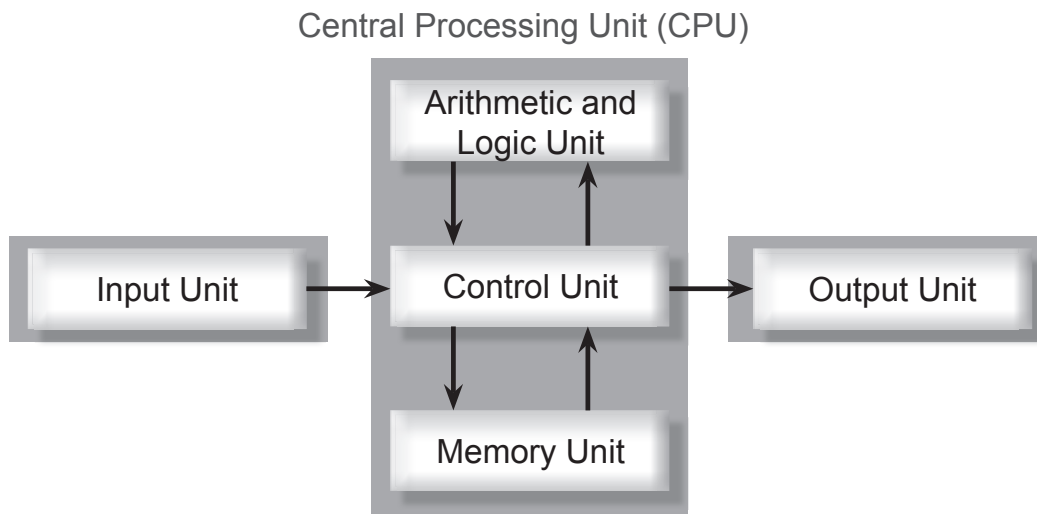- » Buying and selling things

LAB ACTIVITIES

1. **Open Notepad and write the following about the computer's CPU.**

    CPU is the brain of the computer. It is the main part of the computer and processes the data or input given by us. All other parts of the computer work through the CPU. It is attached inside the CPU box.

    The CPU is divided into the following three parts:

    » Arithmetic and Logic Unit (ALU)

    » Control Unit (CU)

    » Memory Unit (MU)

2. **Open Paint. Draw a labelled diagram of the CPU, as shown below.**

Central Processing Unit (CPU)

ASSESSMENT

Oral quiz on the internal parts of a computer and their functions can be conducted in the class.

SUGGESTED CLASS ACTIVITIES

Tick (✓) the correct option.

1. _____ is a part of the CPU that controls the flow of data.
   - (a) ALU
   - (b) CU
   - (c) MU

2. _____ is a part of the CPU where calculations take place.
   - (a) ALU
   - (b) CU
   - (c) MU

3. _____ is a part of the CPU responsible for memory management.
   - (a) ALU
   - (b) CU
   - (c) MU

4. _____ is a place where computers are used to teach and learn.
   - (a) School
   - (b) Bank
   - (c) Hospital

5. _____ is a place where computers are used to treat patients.
   - (a) School
   - (b) Bank
   - (c) Hospital