



How Computers Work

LESSON PLAN

After this lesson, students will be able to:

- » Give examples of home machines
- » Define Input
- » Define Process
- » Define Output
- » Discuss the IPO cycle of different everyday machines
- » Explain the computer's IPO cycle
- » Understand the term GIGO – Garbage In Garbage Out

WARM UP

Write each word three times.

Data	Instructions	Input	Process	Output
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Ans. Do it yourself.

CHAPTER NOTES

- » Every machine follows the IPO concept.
- » Computer is also a machine.

- » The Input-Process-Output cycle is followed by computers.
- » What we give to a machine is called input.
- » What the machine does to the input is called process.
- » What we finally get from the machine is called output.
- » We give data and instructions to a computer as input.
- » The processed data is called output.
- » Devices through which we give data to a computer are called input devices.
- » Devices through which we get output from a computer are called output devices.

DEMONSTRATION

- » Doing calculations on a computer to explain the IPO cycle.

LAB ACTIVITIES

1. Solve the questions below and type the answers in Notepad.

Follow the IPO cycle. Write down the output for the following.

	INPUT (DATA & INSTRUCTIONS)	OUTPUT
1	Add 7 and 2.	
2	Write the word 'computer'.	
3	What comes after 9?	
4	Write the number '5' three times.	
5	Fill in the blanks – a, b, c, d, __, __.	

2. Open the Calculator application on the computer and solve the following problems.

» $12 + 17 =$ _____

» $23 * 8 =$ _____

» $123/7 =$ _____

» $40 * 3 =$ _____

» $50 + 73 =$ _____

» $98/65 =$ _____

ASSESSMENT

Give an oral quiz to test the students on the IPO cycle. Take examples of machines they use in their daily life, as well as computer devices.