

# LESSON PLAN

Touchpad iPRIME Ver 1.1

Class-I

## 1. Computer—A Wonderful Machine

### Teaching Objectives

Students will learn about

- ☞ Natural and man-made things
- ☞ What are machines?
- ☞ Computer—A wonderful machine
- ☞ Difference between computers and machines
- ☞ Features of computers
- ☞ Types of computers

### Teaching Plan

**Number of periods: 3**

Encourage the students to name some things which they see around themselves.

Make them understand some of these things are natural like sun, moon, star, mountains, cat, dog, tree, boy, girl, etc. The other things are man-made like chair, table, TV, fan, pencil, eraser, board, building, washing machine, mobile, etc.

Explain to the students that machines are made by man.

Give examples of some machines around us like refrigerator, air conditioner, television, mobile, car, etc. and their use.

Share with them that computer is also a machine.

Tell them the various things we can do with the computer like doing sums, drawing, listening to music, watching movies, learning, etc.

Encourage them to tell why computer is different from other machines (other machines can only do the work for which they are made but computer can do many kinds of work).

Share with them that computer is also a machine.

Encourage them to tell why computer is different from other machines (other machines can only do the work for which they are made but computer can do many kinds of work).

Make the students understand that there are certain things which man can do better than computers covering:

Feelings – computer does not have feelings and does not understand emotions

Instruction – computer cannot work without our instructions



Decision – computer cannot take its own decisions

Ask the students to solve the exercise Warm Up! given on page number 10.

Explain to the students about the different types of computers covering:

Desktop computer – kept on desk or table

Laptop computer – can be kept on lap also and is portable

Hand-held computer – smaller than a laptop and has a touchscreen

Tell the students that all these types of computers are called Personal Computers or PCs.

Ensure that the scope of Teacher's Corner given at the end of the chapter has been covered.

### Extension

Ask the students some oral questions based on this chapter.

Q. Is a computer a machine?

Q. Name some natural things.

Q. Name some man-made things.

Q. Who makes machines?

Q. Are machines natural?

Q. What is the use of an air conditioner / refrigerator / washing machine / television / mobile / car?

Q. What does a computer need to run?

Q. How is a computer different from other machines?

Q. State any two features of a computer.

Q. Name two things which man can do better than computers.

Q. Name any two types of computers.

Q. Which is the largest type of computer?

Q. Which is the smallest type of computer?

Q. Can we keep all computers in our pocket?

Q. Name two computers which we can keep in our pocket.

Q. Name the computer which we keep on a desk or a table.

### Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 12, 13 and 14 of the main course book as One Touch Learn and Let's Do It. After solving the course book exercises, tell the students to solve Crack the Code activity given on Page 14 and 15 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Hands-On and Fun in Lab given on Page 15 of the main course book will enhance the ability of the students and serve as a Subject Enrichment activity.

### Suggested Activity

Show pictures of some machines (calculator, fan, sewing machine, set top box, cycle, clock, microwave, stapler, electronic toy, etc.) and ask the students what they are used for?



## 2. Uses of Computer

### Teaching Objectives

Students will learn about

- ☞ Features of a computer
- ☞ Functions of a computer
- ☞ What computers cannot do?

### Teaching Plan

**Number of periods: 2**

While teaching this chapter, tell the students that computer is a magical machine and makes out work faster and easier. Explain to the students the features of a computer covering:

Fast No mistakes Search information Do many types of works Non-tiredness Large storage Tell the students about various functions of a computer covering:

Type letters, words and sentences

Calculate sums

Draw and colour images

Play games

Watch cartoons and movies

Play songs

Share with the students that there are some things which computers cannot do like:

Think Dance Walk Swim Breathe

Ensure that the scope of Teacher's Corner given at the end of the chapter has been covered.

Tell the students why the computer is used:

At home (watch movies, play games, make school projects, online shopping, etc.)

In schools (store student records, library books record)

In offices (maintain records) In banks (keep record of money)

In hospitals (make medical reports, controlling machines while doing surgeries)

In shops (make bills, storing details of items)

At railway stations and airports (book tickets, record of passenger information, information about arrival and departure of trains and airplanes.

Ensure that the scope of Teacher's Corner given at the end of the chapter has been covered.

### Extension

Ask the students some oral questions based on this chapter.

- Q. State two features of a computer.
- Q. Does a computer get tired?
- Q. Do computers make mistakes?

- Q. Why do we use computers?
- Q. Name two things that a computer cannot do.
- Q. Are computers used only in schools and at homes?
- Q. Name two places other than home and school where computers are used.
- Q. Why do we use computers at home / in schools / at railway stations / in shops / in offices / in hospitals?

### Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 20 and 21 of the main course book as One Touch Learn and Let's Do It. After solving the course book exercises, tell the students to solve Crack the Code activity given on Page 22 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Hands-On and Fun in Lab given on Page 23 of the main course book will enhance the ability of the students and serve as a Subject Enrichment activity.

### Suggested Activity

Ask the students to discuss with their parents the use of computers for:

- Controlling movement of metro trains
- Launching satellites
- Weather forecasting
- Making robots
- Making animations

## 3. Parts of Computers

### Teaching Objectives

Students will learn about

- ☞ Main parts of a computer
- ☞ Other parts of a computer

### Teaching Plan

**Number of periods: 3**

While teaching this chapter, tell the students that just as our body has different parts like hands, eyes, brain, etc. similarly, a computer also has various parts.

Tell the students that a computer has four main parts:

Monitor – also called Visual Display Unit (VDU), looks like a television, used to see pictures, games, cartoons, alphabet, numbers and words.

CPU – stands for Central Processing Unit, fixed inside CPU box, called brain of the computer, most important part of the computer.

Mouse – device with long wire, two buttons and scroll wheel, used to draw pictures.

Keyboard – has small buttons called keys, used for typing numbers and letters.

Share with the students that a computer has some other parts also like:



Speakers – attached to computer, used to hear sounds and music stored in computer.

Headphones - attached to computer, used to hear sounds and music stored in computer without disturbing others.

Printer – used to print text and images on paper. Compact Disc (CD)

Pen Drive – called storage devices and used to save data.

Ensure that the scope of Teacher's Corner given at the end of the chapter has been covered.

### Extension

Ask the students some oral questions based on this chapter.

Q. Name the four main parts of a computer.

Q. What is the use of Monitor / Mouse / keyboard /CPU?

Q. What does CPU stand for?

Q. What is the other name of a monitor?

Q. Expand VDU.

Q. Where is CPU fixed?

Q. Name some other parts of a computer

Q. What is the difference between speakers and headphones if both are used to hear sounds?

Q. Give two examples of input / output / storage devices.

Q. Name two storage devices.

### Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 27, 28 and 29 of the main course book as One Touch Learn and Let's Do It. After solving the course book exercises, tell the students to solve Crack the Code activity given on Page 29 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Hands-On and Fun in Lab given on Page 30 of the main course book will enhance the ability of the students and serve as a Subject Enrichment activity.

### Suggested Activity

Ask the students to paste pictures of different parts of a computer in their computer notebook and write their names.

## 4. Using Computers—Do's & Dont's

### Teaching Objectives

Students will learn about

☞ Things to do in a computer lab

☞ Things not to do in a computer lab

### Teaching Plan

**Number of periods: 3**

While teaching this chapter, tell the students that a computer is a wonderful machine and can perform a variety of tasks. But, you must take care of your computer otherwise a computer won't be able to perform properly.

Introduce things to do in a computer lab and how to conduct properly near a computer.  
Also explain things no to do in a computer lab.  
Ensure that the scope of Teacher's Corner given at the end of the chapter has been covered.

### Extension

Ask the students some oral questions based on this chapter.

- Q. What are the parts of a computer?
- Q. Which are the things to avoid in a computer lab?

### Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 34, 35 and 36 of the main course book as One Touch Learn and Let's Do It. After solving the course book exercises, tell the students to solve Crack the Code activity given on Page 36 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Fun in Lab given on Page 36 of the main course book will enhance the ability of the students and serve as a Subject Enrichment activity.

### Suggested Activity

Ask the students to prepare a chart of things to do and not to do in a computer lab.

## 5. Using the Mouse

### Teaching Objectives

Students will learn about

- ☞ Mouse buttons
- ☞ Mouse pad
- ☞ How to hold a mouse
- ☞ How to use a mouse

### Teaching Plan

**Number of periods: 3**

While teaching this chapter, tell the students that a mouse helps us to tell the computer what to do.

Share with the students some uses of a computer mouse.

Show to the students that the small arrow moving on the screen is called pointer.

Make the students understand that there are two types of computer mouse:

Two-buttoned mouse – has two buttons – left button and right button.

Scroll mouse – has two buttons (left and right) and a scroll wheel.

Show to the students the correct way of holding the mouse with reference to the position of fingers and palm (shown in the main course book).

Show to the students that a computer mouse can be used for: Pointing – by moving the pointer.



Clicking – by pressing mouse buttons.

Single-clicking or Clicking – pressing and releasing the left button quickly, used to select an icon.

Double-clicking – pressing and releasing the left button twice quickly, used to open a program.

Right-clicking – pressing and releasing the right button quickly, used to display a shortcut menu.

Dragging – moving the mouse while keeping the left button pressed, used to move objects on screen. Ensure that the scope of Teacher's Corner given at the end of the chapter has been covered.

### Extension

Ask the students some oral questions based on this chapter.

- Q. What is a mouse used for?
- Q. Name the pointing device.
- Q. Name the two types of mouse.
- Q. Which finger must be placed on the left button / right button?
- Q. Which finger must be used to scroll the wheel?
- Q. Which fingers must be used to hold the sides of the mouse?
- Q. Define pointing / clicking / dragging.
- Q. What is the meaning of single-click / double-click / right-click?
- Q. What is single-click / double-click / right-click used for?

### Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 43, 44 and 45 of the main course book as One Touch Learn and Let's Do It. After solving the course book exercises, tell the students to solve Crack the Code activity given on Page 45 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Hands-On and Fun in Lab given on Page 46 of the main course book will enhance the ability of the students and serve as a Subject Enrichment activity.

### Suggested Activity

Ask the students to draw a picture of a mouse representing single-click, double click, right-click, drag.

## 6. Using the Keyboard

### Teaching Objectives

Students will learn about

- ☞ Keys on the Keyboard
- ☞ Alphabet Keys
- ☞ Number Keys
- ☞ Special Keys
- ☞ What is a Cursor?

## Teaching Plan

**Number of periods: 2**

While teaching this chapter, tell the students that keyboard is used to write on computer screen.

Show to the students that a keyboard has small buttons on it called keys.

Make the students count that a computer keyboard has 101 to 104 keys.

Tell the students that the keys on a keyboard are divided into three categories:

- Alphabet keys – 26 in number (A to Z)
- Number keys – 10 in number (0 to 9)
- Special keys – Enter, Spacebar, Backspace, etc.

Show to the students the position of various categories of keys on the keyboard.

Make the students understand that the alphabet keys (A to Z) on the keyboard are also used to write in small letters (a to z).

Share with the students that the number keys are used to type numbers and there are two sets of number keys on a keyboard.

Show to the students that there are some special keys also on the computer like:

- Spacebar key – longest key at the bottom, used to give blank space between letters and words.
- Enter key – also called Return key, two in number, used to move to the next line.
- Backspace key – used to erase what we have typed.
- Cursor Control keys – Show to the students the four arrow keys (up, down, left and right) on the keyboard, used to move the cursor.

Open a MS Word file and show to the students the small blinking line called cursor.

Make the students understand that the cursor shows the place where the typed letters will appear.

Ensure that the scope of Teacher's Corner given at the end of the chapter has been covered.

## Extension

Ask the students some oral questions based on this chapter.

- Q. What are the small buttons on a keyboard called?
- Q. How many keys are there on a keyboard?
- Q. Name the categories in which the keys on a keyboard are divided into.
- Q. What are alphabet / number keys used for?
- Q. How many sets of number keys are there on the keyboard?
- Q. How many alphabet keys are there on the keyboard?
- Q. What is the use of Enter / Spacebar / Backspace key?
- Q. Name some special keys.
- Q. What is the use of cursor control keys?
- Q. How many cursor control keys are there?
- Q. What is a cursor?





## Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 50 and 51 of the main course book as One Touch Learn and Let's Do It. After solving the course book exercises, tell the students to solve Crack the Code activity given on Page 52 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Hands-On and Fun in Lab given on Pages 52 of the main course book will enhance the ability of the students and serve as a Subject Enrichment activity.

## Suggested Activity

Ask the students to paste a picture of computer keyboard in the computer notebook and label Number keys, Alphabet keys, Enter keys, Spacebar key, Backspace key and Cursor Control keys on it.

# 7. Storage Devices

## Teaching Objectives

Students will learn about

- ☞ Storing things
- ☞ Storage devices of a computer

## Teaching Plan

Number of periods: 3

While teaching this chapter, tell the students that a computer is made up of many devices which are categorized as input devices, output devices and storage devices.

Introduce different storage objects used in daily life for storing different things.

Introduce storage devices as the parts that are used to store our work in the computer.

Share with them pictures / models of some storage devices like:

Hard Disk – rectangular in shape and fixed inside the CPU box

Compact Disc (CD) – circular in shape and portable storage device

Digital Versatile Disc (DVD) – circular in shape but with more storage capacity than CD

Pen Drive or USB Flash Drive – having more storage capacity than DVD but less than Hard Disk

Show to the students CD/DVD Drive and USB ports used to read the files stored in CD/DVD and Pen Drive respectively. Ensure that the scope of Teacher's Corner given at the end of the chapter has been covered.

## Extension

Ask the students some oral questions based on this chapter.

- Q. What are the parts of a computer?
- Q. Which has more storage capacity: CD or DVD?
- Q. Arrange in increasing order of storage capacity: CD DVD Pen Drive Hard Disk

## Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 55 and 56 of the main course book as One Touch Learn and Let's Do It. After solving the course book exercises, tell the students to solve Crack the Code activity given on Page 56 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Hands-On and Fun in Lab given on Page 56 of the main course book will enhance the ability of the students and serve as a Subject Enrichment activity.

## Suggested Activity

Ask the students to collect information about a modern storage device – Blue Ray Disc which looks like a CD/DVD but has much more storage capacity than the two.

