

LESSON PLAN

Touchpad PLUS Ver 1.0

Class-3

1. The Computer System

Teaching Objectives

Students will learn about

- ☞ How does a computer work?
- ☞ Storage
- ☞ Features of a computer
- ☞ Types of computers

Teaching Plan

Number of periods: 2

While teaching this chapter, tell the students that a computer is an electronic machine made up of various devices that help to enter data, process it and give the results.

Tell them that a computer works through Input-Process-Output (IPO) cycle.

Explain the meaning of the terms input and input devices.

Tell them how keyboard, mouse and scanner are used to input data into a computer.

Explain the meaning of the terms process, processor and processing.

Tell them how CPU processes data with the help of Arithmetic Logic Unit (ALU) – for arithmetic and logical calculations, Memory Unit (MU) – for storing data and instructions and Control Unit (CU) – for coordinating between all parts of the CPU.

Explain the meaning of the terms output and output devices.

Demonstrate to them the difference between hard copy and soft copy.

Make the students understand the meaning of the term Storage.

Tell them examples of some commonly used storage devices and basic features of each of the storage device.

Make the students understand the basic features of a computer that makes it a special machine covering Speed, Accuracy, Diligence, Memory and Multi-tasking.

Explain the features and use of different types of computers covering microcomputers, minicomputers, mainframe computers and supercomputers.

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. Expand IPO.
- Q. Define input / output / processing.
- Q. Name some input, processing and output devices.
- Q. What is storage?
- Q. Give examples of some storage devices.
- Q. What are microcomputers?
- Q. How are minicomputers different from mainframe computers?
- Q. Define supercomputers.
- Q. Give an example of supercomputer.

Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 13, 14 and 15 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 Pages 15 and 16 of the main coursebook. Help the students to solve these questions.

In Creative Assignment, activities like Hands-On and Fun in Lab given on Page 17 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 comparative table on chart paper comparing the features of different types of computers on various parameters with the help of examples and pictures/drawings.

2. Computer Software

Teaching Objectives

Students will learn about

- ☞ Hardware
- ☞ Software

Teaching Plan

Number of periods: 2

While teaching this chapter, tell the students that a computer system consists of two components – hardware and software.

Tell the students that the parts of the computer that can be touched are called hardware.

Share some examples of hardware with the students.

Make the students understand that the software refers to step-by-step instructions for the computer.

Share some examples of software with the students.



Introduce the students to the two broad categories of software as System software and Application software.

Tell the students the importance of system software for the functioning of the computer system.

Tell the students about some commonly used system software / operating system and their versions.

Explain the importance of application software to the students.

Share with students some examples of application software (covering Paint, Windows Media Player, MS Word, MS PowerPoint and Adobe Photoshop) and the purposes for which these software are mainly used.

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. Define hardware.
- Q. Name some hardware devices.
- Q. What do you understand by software?
- Q. Name the different types of software.
- Q. What is system software?
- Q. Give examples of some commonly used operating systems.
- Q. What is application software?
- Q. Name some application software and their use.

Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 22, 23 and 24 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 Pages 24 and 25 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Fun in Lab given on Page 25 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 some more application software and the purpose for which they are used.

3. Let's Know About Windows 7

Teaching Objectives

Students will learn about

- 🖨 Windows 7
- 🖨 Desktop

- ☞ Taskbar
- ☞ Using Computer icon
- ☞ Mouse pointer shapes
- ☞ How to change desktop background
- ☞ How to shut down Windows 7

Teaching Plan

Number of periods: 3

While teaching this chapter, tell the students that operating system is one of the most important software as without this software we cannot use our computer at all.

Give a brief introduction of Microsoft Windows.

Tell the students the about the useful features of Windows 7.

Demonstrate to the students the steps to start Windows 7.

Make the students aware about the concept of desktop.

Familiarize the students with some important icons on the desktop like Computer, Recycle Bin and Network.

Demonstrate to the students the steps to sort icons on the desktop.

Show to the students that how some or all of the icons on the desktop can be hidden.

Introduce the students to the taskbar and its components covering Start button, Opened program icons and Notification Area.

Demonstrate to the students the steps involved in changing the position of the taskbar.

Explain to the students the use of the 'Computer' icon.

Tell the students that the mouse pointer changes its shape on the basis of our actions performed.

Show to the students some commonly taken shapes by the mouse pointer.

Demonstrate to the students the steps to change desktop background.

Show the students the correct method of shutting down Windows 7.

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 the importance of an operating system?
- Q. Give examples of some popular operating systems.
- Q. Which company developed Windows operating system?
- Q. What are the important features of Windows 7?
- Q. What is desktop?
- Q. Define icons.
- Q. What is taskbar?
- Q. Can the position of the taskbar be changed?
- Q. When does the mouse pointer change to Double-headed Arrow / I Beam / Four-headed Arrow?



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 Hands-On and Fun in Lab given on Page 37 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 the various shapes of a mouse pointer and the action being performed at that time on an A3 sheet of paper.

4. Introduction to MS Word 2010

Teaching Objectives

Students will learn about

- ☞ Uses of MS Word 2010
- ☞ Starting MS Word 2010
- ☞ Parts of MS Word 2010
- ☞ Working with MS Word 2010
- ☞ Opening, saving, printing and closing a document

Teaching Plan

Number of periods: 4

While teaching this chapter, tell the students that Microsoft Word is word processing software in the category of application software.

Make the students aware of the various uses of MS Word 2010.

Demonstrate to the students the steps involved in starting MS Word 2010.

Show the students the various components of MS Word 2010 window covering Title Bar, Quick Access Toolbar, Ribbon, Rulers, Horizontal and Vertical Scroll Bars, Text / Document Area and Status Bar.

Familiarize the students that while working on MS Word, some frequently used keys other than alphabet and number keys are Spacebar, Enter, Delete and Backspace.

Demonstrate to the students the steps involved in:

- ☞ Creating a new Word file
- ☞ Typing text
- ☞ Saving a document
- ☞ Opening a saved document
- ☞ Printing a document
- ☞ Closing MS Word

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 MS Word?
- Q. What are the various uses of MS Word 2010?
- Q. Name some important components of MS Word 2010 window.
- Q. Which company developed MS Word?
- Q. What are the shortcut keys to open / save / print a document?
- Q. What are the various ways in which the user can exit from MS Word 2010?

Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 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 46 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Fun in Lab given on Pages 46 and 47 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 create a Word document on Myself. The students should take a printout of the document and paste it in their computer notebook / practical file.

5. Fun with Paint

Teaching Objectives

Students will learn about

- ☞ Starting Paint
- ☞ Resizing an Image
- ☞ Skewing an Image
- ☞ Flipping an Image
- ☞ Rotating an Image
- ☞ Zooming an Image
- ☞ Cropping an Image
- ☞ Copying and Pasting
- ☞ Cutting and Pasting
- ☞ Saving the Drawing
- ☞ Opening an old Drawing
- ☞ Setting a drawing as Desktop Background



Teaching Plan

Number of periods: 4

While teaching this chapter, tell the students that Paint is a simple program for painting on computer. Make the students recall the steps to start Paint.

Ensure that the students are able to recall the components of Paint window.

Discuss with the students the basic Paint tools covering Pencil Tool, Eraser Tool, Fill with Color Tool, Text Tool and Brushes Tool

Make them recall the use of Line Shape, Rectangle Shape, Oval Shape, Rounded Rectangle Shape, Polygon Shape and Curve Shape.

Demonstrate to the students the meaning of and steps involved in:

- Resizing an image
- Skewing an image
- Flipping an image
- Rotating an image
- Zooming an image
- Cropping an image

Make the students understand the difference between Copying-Pasting an image and Cutting-Pasting an image.

Demonstrate to the students the steps involved in both these activities (Copy-Paste and Cut-Paste).

Tell the students the method to save a drawing.

Show the students the method of how to open an old drawing.

Share with the students that the drawings of Paint can be setup as Desktop Backgrounds also.

Demonstrate to the students the steps involved in setting a drawing as desktop background.

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 can Paint be used for in computers?
- Q. State the use of Pencil / Eraser / Fill with color / Text / Brushes Tool.
- Q. Define skewing.
- Q. What do you understand by the term flipping an image?
- Q. What is the meaning of zooming an image?
- Q. What is the difference between Cut-Paste and Copy-Paste?
- Q. Can drawings made in Paint be set as Desktop Backgrounds?

Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 60, 61 and 62 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 63 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Fun in Lab given on Pages 63 and 64 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 create a drawing of a village scene in Paint.

6. Computer Language—MSW LOGO

Teaching Objectives

Students will learn about

- 🖨 MSW LOGO
- 🖨 LOGO Turtle
- 🖨 Starting LOGO
- 🖨 Components of MSW LOGO window
- 🖨 Exiting MSW LOGO

Teaching Plan

Number of periods: 4

While teaching this chapter, tell the students that MSW LOGO is a computer language used to give instructions to the computer.

Tell the students that MSW LOGO is designed to teach basics and logic of programming to the students.

Tell the students that the pen used by LOGO is called Turtle and is triangular in shape with the pointed top as head and bottom base as tail.

Demonstrate to the students the steps to start MSW LOGO.

Familiarize the students with the components of MSW LOGO window covering Turtle, Main Screen and Commander Window.

Tell the students about the use of Main Screen.

Make the students understand that the Commander Window is divided into three sections – Command Input Box, Recall List Box and Control Buttons.

Familiarize the students with the use of control buttons covering Halt, Status, Reset and Execute.

Show to the students the steps involved in exiting MSW LOGO.

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 does MSW LOGO stand for?
- Q. What is MSW LOGO used for?
- Q. What is turtle?
- Q. What are the two parts of a turtle?
- Q. Name the main components of MSW LOGO window.



- Q. Which is the main screen of the MSW LOGO window?
- Q. What is the Commander Window used for?
- Q. Name the different sections of Commander Window.
- Q. When is Halt / Status / Reset / Execute button used?

Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 68, 69 and 70 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 70 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Fun in Lab given on Page 70 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 take a printout of MSW LOGO screen, paste it in the notebook and label its various components.

Ask the students to research on the use of Trace, Pause, Step and Edall buttons present on the Commander window.

7. LOGO Commands

Teaching Objectives

Students will learn about

- ☞ FORWARD command
- ☞ BACKWARD command
- ☞ RIGHT command
- ☞ LEFT command
- ☞ HIDETURTLE command
- ☞ SHOWTURTLE command
- ☞ CLEARSCREEN command
- ☞ CLEARTEXT command
- ☞ PRINT command

Teaching Plan

Number of periods: 4

While teaching this chapter, tell the students that in LOGO the instructions are given through some specific words.

Introduce primitives as the term used for the LOGO commands.

Share with the students the purpose and use of these LOGO commands:

- FORWARD or FD
- BACKWARD or BK

- RIGHT or RT
- LEFT or LT
- HIDETURTLE or HT
- SHOWTURTLE or ST
- CLEARSCREEN or CS
- CLEARTEXT or CT
- HOME
- PRINT

Demonstrate to the students the use of these commands in LOGO.

Encourage the students to draw some basic shapes in LOGO using these commands.

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 primitives?
- Q. Name some primitives.
- Q. State the use of FD / BK / RT / LT / CS / CT / HOME / PRINT command.
- Q. What is the syntax of FD / BK / RT / LT / CS / CT / HOME / PRINT command?

Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 76, 77 and 78 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 78 of the main coursebook. Help the students to solve these questions.

In Creative Assignment, activities like Fun in Lab given on Pages 78 and 79 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 some shapes like these in MSW LOGO.



8. Fun with Tux Paint

Teaching Objectives

Students will learn about

- Tools of Tux Paint



- ☞ Magic Tool
- ☞ Undo and Redo tools
- ☞ Slide Show

Teaching Plan

Number of periods: 3

While teaching this chapter, tell the students that there are many more effects present in Magic Tool in Tux Paint.

Recall with the students the use Paint, Shapes, Eraser, Lines, Stamp, Text and Magic tools of Tux Paint.

Explain to the students the Fill Effect (fill colours in closed shapes) of Magic Tool.

Demonstrate the steps to apply Fill Effect of the Magic Tool.

Tell the students about the Smudge Effect (wipe effect) of Magic Tool.

Demonstrate the steps to apply Smudge Effect of the Magic Tool.

Explain to the students the Real Rainbow Effect (draw a rainbow around a picture) of Magic Tool.

Demonstrate the steps to apply Real Rainbow Effect of the Magic Tool.

Explain to the students the Foam Effect (bubbles effect) of Magic Tool.

Demonstrate the steps to apply Foam Effect of the Magic Tool.

Explain to the students the Mosaic Effect (pattern formation by arranging tiles, glass, etc.) of Magic Tool.

Demonstrate the steps to apply Mosaic Effect of the Magic Tool.

Tell the students about the purpose of Undo and Redo tools as well as the difference between the two.

Introduce slide show as running all scenes of a story or text, one after another.

Show to the students the steps to make a slide show of the drawings.

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 the use of Paint / Shapes / Eraser / Lines / Stamp / Text / Magic tool?
- Q. What is the Fill / Smudge / Real Rainbow / Foam / Mosaic effect of Magic tool?
- Q. What is the difference between the Undo and the Redo tools of Tux Paint?
- Q. What is Slide Show?
- Q. Which key is pressed to exit the slide show?

Evaluation

After explaining the chapter, let the students do the course book exercises given on Pages 85, 86 and 87 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 88 of the main course book. Help the students to solve these questions.

In Creative Assignment, activities like Fun in Lab given on Pages 88 and 89 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 similar drawing in Tux Paint.

