

LESSON PLAN

Touchpad PRIME Ver 2.0 Class-2

1. Discover Computers

Teaching Objectives

Students will learn about

- ☞ Computer: A Smart and Useful Human-made Machine
- ☞ Humans and Computers
- ☞ Uses of Computers
- ☞ Types of Computers

Teaching Plan

Number of periods: 2

While teaching this chapter, tell the students that a computer is an electronic machine which helps us to solve many problems.

Tell the students that the computer is a man-made machine and very much different from man. Share with the students the features of a computer covering:

- **Accuracy** – does not make mistake
- **Storage** – stores information and does not forget it
- **Work Process** – does not get tired and work for long hours
- **Speed** – works at a very high speed

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.

Extension

Ask the students some oral questions based on this chapter.

- Q. What is a computer?
- Q. How has the word 'computer' been derived?
- 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 Mind Drill given on Page 12, 13 and 14 in the main course book as Rapid Fire and Evaluation Time. Tell the students to try sections under Activity Time given on Pages 14 and 15 in the main course book.

Take the students to the computer lab and let them practice the activity given in the Find Out and In the Lab section on Page 15 in the main course book. This will enhance the ability of the students and serve as a Subject Enrichment activity.

Suggested Activity

Show the pictures of different types of computers to the students and ask the name of each type of computer.

2. Parts of a Computer

Teaching Objectives

Students will learn about

- 📖 Main Parts of a Computer
- 📖 Other Parts of a Computer

Teaching Plan

Number of periods: 3

Tell the students about the main parts of computer:

- **Monitor or Visual Display Unit (VDU)** – used to show the data that is input and its result after computer process through its front portion, screen.
- **Keyboard** – used for typing text and numbers through keys



- **Mouse** – used for drawing pictures and selecting objects through click
- **CPU** – is the brain of the computer.

Tell the students about other parts of computer:

- **Printer** – used to print the work done by computer on paper and the types of printers as Inkjet printers and Laser printers.

Tell the students about the types of printers as Inkjet printers and Laser printers

- **Speakers** – used to listening to music, sound and voice on a computer
- **Headphones** – work as small speaker and used to hear sound without disturbing others
- **Headset** – used as a combination of microphone and headphones

Ask the students to solve the exercise Warm Up! given on page number 18.

Extension

Ask the students some oral questions based on this chapter.

- Q. What are the parts of a computer?
- Q. What is a USB port used for?
- Q. What is the name given to the combination of microphone and headphones?

Evaluation

After explaining the chapter, let the students do the Mind Drill given on Page 21, 22 and 23 in the main course book as Rapid Fire and Evaluation Time. Tell the students to try sections under Activity Time given on Page 23 in the main course book.

Take the students to the computer lab and let them practice the activity given in the Find Out and In the Lab section on Page 24 in the main course book. This 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.

3. Operating a Computer

Teaching Objectives

Students will learn about

- ☞ Switching ON a Computer
- ☞ Switching OFF a Computer

Teaching Plan

Number of periods: 2

While teaching this chapter, tell the students that we need to follow proper steps to switch on and shut down a computer.

Share with the students the steps to switch on a computer as:

- (i) Switch on main power supply button
- (ii) Switch on UPS (inverter of the computer) button
- (iii) Switch on power supply button of CPU
- (iv) Switch on monitor

Explain to the students that:

- The first screen that appears on the monitor is called desktop.
- Small pictures on the desktop are icons.
- Long bar at the bottom of the desktop is called Taskbar.
- Start button is on the left corner of the taskbar and used to open different programs.
- Start menu has Shut Down button which is used to shut down the computer.
- Maximize and Minimize buttons to resize the window and Close button to close the window.

Share with the students the steps to shut down a computer as:

- (i) Click on Start button.
- (ii) Click on Shut Down button and wait.
- (iii) Switch off monitor button.
- (iv) Switch off UPS button.
- (v) Switch off main power supply button.

Ask the students to solve the exercise Warm Up! given on page number 28.

Extension

Ask the students some oral questions based on this chapter.

- Q. What is the first step to switch on a computer?
- Q. What is the first step to shut down a computer?
- Q. What is the last step to shut down a computer?
- Q. What are icons?
- Q. Where is taskbar located?
- Q. Do we need to switch off the CPU button while shutting down a computer?
- Q. Which menu is used to shut down a computer?



Evaluation

After explaining the chapter, let the students do the Mind Drill given on Page 30 and 31 in the main course book as Rapid Fire and Evaluation Time. Tell the students to try sections under Activity Time given on Page 31 and 32 in the main course book.

Take the students to the computer lab and let them practice the activity given in the Hands On, Find Out and In the Lab section on Page 32 and 33 in the main course book. This will enhance the ability of the students and serve as a Subject Enrichment activity.

Suggested Activity

Ask the students to draw images showing the steps to switch on a computer and to shut down a computer in their computer notebook.

4. Working of a Computer

Teaching Objectives

Students will learn about

- ☞ Working of Machines
- ☞ IPO Devices

Teaching Plan

Number of periods: 3

While teaching this chapter, tell the students that a computer works according to the commands or instructions given by us.

Tell the students about the working of some machines like:

- **Juicer** – we put fruit pieces inside it, the juicer squashes the fruits and gives out fresh juice.

Share with the students that in both these cases, the first step is input, the second step is process and the third step is output.

Share with the students that this cycle of working of machines is called Input-Process-Output cycle or IPO cycle.

Introduce the term Input as giving instructions to the computer.

Ask the students to solve the exercise Warm Up! given on page number 36.

Tell the students that keyboard and mouse are used as input devices in a computer.

Introduce the term Process as action performed by computer on the instructions given by us.

Tell the students that Central Processing Unit (CPU) is processing device of a computer and is called Brain of the computer.

Introduce the term Output as result given by the computer after processing.

Tell the students that monitor and printer are used as output devices in a computer.

Extension

Ask the students some oral questions based on this chapter.

- Q. What does IPO stand for?
- Q. What is Input-Process-Output cycle?
- Q. Define Input / Process/ Output.
- Q. Name two input / output devices.
- Q. Which part of the computer is called Brain of the computer?
- Q. Why is CPU called brain of the computer?

Evaluation

After explaining the chapter, let the students do the Mind Drill given on Page 39, 40 and 41 in the main course book as Rapid Fire and Evaluation Time. Tell the students to try sections under Activity Time given on Page 41 and 42 in the main course book.

Take the students to the computer lab and let them practice the activity given in the In the Lab section on Page 42 in the main course book. This will enhance the ability of the students and serve as a Subject Enrichment activity.

Suggested Activity

Show some more machines with input and output to the students and ask the students to arrange these in correct order of the IPO cycle.

5. Fun with Keyboard

Teaching Objectives

Students will learn about

- ☞ Alphabet keys
- ☞ Number keys
- ☞ Special keys

Teaching Plan

Number of periods: 2

While teaching this chapter, tell the students that keyboard and mouse are used to perform various functions.

Show to the students a keyboard and demonstrate:

- A keyboard has 104 keys
 - **Alphabet keys** – used to type letters, words and sentences.
 - **Number keys** – used to type numbers.

Tell the students that there are some special keys in details:



- **Shift key** – used with other keys for different purposes like with alphabet keys to type in capital letters with caps Lock turned off and with number keys and symbol keys to type the symbols in the upper row of that key.
- **Symbol keys** – used to type special signs like @,\$, %, *, etc. and punctuation marks like ?, ! :, " ", etc.
- **Backspace key** – used to erase letters and numbers on the left side of the cursor.
- **Spacebar** – used to give a blank space when you type words, letters or numbers.
- **Enter key** – used to start a new line or a paragraph.
- **Delete key** – used to erase letters and numbers to the right of the cursor.
- **Arrow keys** – used to move the cursor up, down, right and left.
- **Function keys** – 12 in number from F1 to F12 and used to perform a different function like F1 for Help, etc.
- **Caps Lock key** – used to type in capital letters
- **Tab key** – used to move cursor several spaces forward at once
- **Escape or Esc key** – used to cancel a task

Ask the students to solve the exercise Warm Up! given on page number 48.

Extension

Ask the students some oral questions based on this chapter.

- Q. Name the two commonly used input devices.
- Q. How many keys are there on a standard keyboard?
- Q. State one use of Shift key.
- Q. What is Escape / Tab / Caps Lock key used for?
- Q. How many Shift / Function keys are there on a keyboard?
- Q. What is the use of Function / Symbol keys?

Evaluation

After explaining the chapter, let the students do the Mind Drill given on Page 51 and 52 in the main course book as Rapid Fire and Evaluation Time. Tell the students to try sections under Activity Time given on Pages 53 in the main course book.

Take the students to the computer lab and let them practice the activity given in the Hands-On and In the Lab section on Page 53 in the main course book. This will enhance the ability of the students and serve as a Subject Enrichment activity.

Suggested Activity

Ask the students to draw a keyboard on an A4 sheet of paper and label these keys:

- Shift keys
- Enter key

- Escape key
- Tab key
- Symbol keys
- Function keys
- Keys to spell the name of the student

6. Fun with Tux Paint

Teaching Objectives

Students will learn about

- | | |
|---------------------------------|--------------|
| ☞ Parts of the Tux Paint Window | ☞ Stamp Tool |
| ☞ New Tool | ☞ Magic Tool |
| ☞ Text Tool | ☞ Slide Show |
| ☞ Open Tool | ☞ Quit Tool |
| ☞ Save Tool | |

Teaching Plan

Number of periods: 4

While teaching this chapter, tell the students that Tux Paint has a lot of tools, animations and effects to enhance your creativity in drawing.

Tell the students that the Tux mascot, that is, a penguin guides you while working in Tux Paint.

Make the students recall the components of the Tux Paint window covering Toolbar, Colors Palette, Help Area, Selector, Up and Down Arrows and Drawing Area or Canvas.

Introduce New tool as the tool used to open a new page for drawing.

Demonstrate to the students the steps involved in use of New tool.

Make the students understand that Open tool is used to open an existing drawing in Tux Paint.

Show to the students the method to use Open tool.

Introduce Stamp tool as the tool used to insert different stamps or images from the Selector.

Explain the steps involved in the use of Stamp tool to the students.

Tell the students that just like in Paint, Text tool is used in tux Paint to type some text in the drawing area or canvas.

Demonstrate to the students the steps involved in using Text tool in Tux Paint.

Tell the students that Magic tool in Tux Paint is used to add special effects to a drawing.

Show to the students some of the Magic tool effects which can be added to a drawing.

Ask the students to solve the exercise Warm Up! given on page number 61.



Extension

Ask the students some oral questions based on this chapter.

- Q. What is the use of Text / Magic / Stamp / New / Open tool?
- Q. When is New tool used?
- Q. Can Open tool be used to open a drawing which was not saved earlier?
- Q. What is the use of Selector in Tux Paint?

Evaluation

After explaining the chapter, let the students do the Mind Drill given on Page 62 and 63 in the main course book as Rapid Fire and Evaluation Time. Tell the students to try sections under Activity Time given on Pages 64 in the main course book.

Take the students to the computer lab and let them practice the activity given in the Find Out and In the Lab section on Page 64 and 65 in the main course book. This will enhance the ability of the students and serve as a Subject Enrichment activity.

Suggested Activity

Ask the students to draw a jungle scene in Tux Paint.

7. More on Paint

Teaching Objectives

Students will learn about

- ☞ Parts of the Paint Window
- ☞ Tools Group
- ☞ Selecting a Drawing
- ☞ Shapes Group
- ☞ Foreground and Background Colour

Teaching Plan

Number of periods: 3

While teaching this chapter, make the students recall that Paint can be used to draw and paint on computer.

Demonstrate the parts of Paint windows along with their purpose.

Show to the students the use of Pencil tool and steps involved in using the tool.

Explain to the students the use of Brushes tool and steps involved in using the tool.

Explain and show to the students the use of Color picker tool and steps involved in using the tool.

Tell the students that Rounded Rectangle shape is used to draw rectangles and squares with rounded corners.

Tell the students that Select command is used to select a drawing or part of a drawing.

Show to the students how a drawing or part of a drawing can be selected.

Demonstrate to the students the steps involved in moving the selected part of an image from one place to another using click and drag feature of the mouse.

Tell the students that the Text tool is used to write some text in the drawing area.

Demonstrate to the students the use of Text tool in Paint.

Tell the students that Rounded Rectangle shape is used to draw rectangles and squares with rounded corners.

Demonstrate to the students the steps involved in use of Rounded Rectangle shape.

Share with the students that Curve shape is used to draw curved lines.

Show to the students the steps involved in use of Curve shape.

Explain to the students that Polygon shape is used to draw a polygon or a closed figure.

Demonstrate to the students the steps involved in use of Polygon shape.

Tell the students about Foreground and Background colours. Also explain the steps involved in changing these in your drawing.

Ask the students to solve the exercise Warm Up! given on page number 73 and 78.

Extension

Ask the students some oral questions based on this chapter.

- Q. What is Paint?
- Q. What is the use of Pencil tool?
- Q. What is the use of Brushes tool?
- Q. What is the use of Magnifier tool?
- Q. What is the use of Color Picker tool?
- Q. What is the Select command used for?
- Q. What do you mean by moving the selected area?
- Q. When do we use Text tool in Paint?
- Q. What is the use of Rounded Rectangle shape?
- Q. What is Curve Shape used for?
- Q. When is Polygon shape used?
- Q. What is the foreground colour?
- Q. What is background colour?

Evaluation

After explaining the chapter, let the students do the Mind Drill given on Page 79 and 80 in the main course book as Rapid Fire and Evaluation Time. Tell the students to try sections under Activity Time given on Page 80 and 81 in the main course book.



Take the students to the computer lab and let them practice the activity given in the In the Lab section on Page 82 in the main course book. This 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 school with its name written on a board at the top of the school building.