

A Multi-skill Activity Book on Computer Science



Windows 10 WITH OFFICE 2016



PM PUBLISHERS PVT. LTD.

Skillment Computer – FS 4 (Class – 1)

PMP Editorial Team

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Preface

With a vision of making quality education accessible to all from the Foundational Stage to Secondary Stage of schooling, the **National Education Policy (NEP) 2020** has issued a new pedagogical and academic structure. The new pedagogical and academic structure has been divided into four stages as mentioned below:

Foundational Stage (5 years): Nursery, LKG, UKG, Std. 1 and Std. 2	(3-8 years)
Preparatory Stage (3 years): Std. 3, Std. 4 and Std. 5	(8-11 years)
Middle Stage (3 years): Std. 6, Std.7 and Std. 8	(11-14 years)
Secondary Stage (4 years): Std. 9, Std. 10, Std. 11 and Std. 12	(14-18 years)

In the new 5+3+3+4 structure, a strong base of **Early Childhood Care and Education (ECCE)** from age 3 is also included. The overall aim of Early Childhood Care and Education (ECCE) is to attain optimal outcomes in the following domains:

- Physical and motor development
- Cognitive development
- Social-emotional-ethical development
- Cultural/Artistic development
- Development of communication and early language, literacy, and numeracy

Our new series, **Skillment**, is properly graded and contains age-appropriate course material for the learners of Foundational Stage to achieve the aims and objectives outlined in the **National Curriculum Framework (NCF) for Foundational Stage 2022**. The series covers different subjects which are classified under the following categories: **FS 1 (3+ years):** Maths, English, EVS, Hindi, Art and Craft, Kavitayen aur Kahaniyan, Rhymes and Stories **FS 2 (4+ years):** Maths, English, EVS, Hindi, Art and Craft, Kavitayen aur Kahaniyan, Rhymes and Stories **FS 3 (5+ years):** Maths, English, EVS, Hindi, Art and Craft, Kavitayen aur Kahaniyan, Rhymes and Stories **FS 4 (6+ years):** Maths, English, EVS, Hindi, Art and Craft, Kavitayen aur Kahaniyan, Rhymes and Stories **FS 4 (6+ years):** Maths, English, EVS, Hindi, English Grammar, Art and Craft, Computer and GK **FS 5 (7+ years):** Maths, English, EVS, Hindi, English Grammar, Art and Craft, Computer and GK

Apart from the main books, we are also providing **Workbooks** with Maths, English, EVS and Hindi to learners for extra practice.

The whole set of books for each class also carries a **Teacher's Resource Kit** which contains various kinds of relevant and interesting teaching aid that teachers may use in the classroom.

A **booklet on Social and Emotional Learning** (SEL) including lesson plans is provided for the teachers to inculcate SEL skills in the learners.

Skillment App is for skill building and joyful teaching and learning for teachers and learners.

Web Support

Our web portal **pmponline.co.in** provides a vital web support to teachers and learners. It includes the following:

- Multimedia ebooks: consist of animation, audio, video, and interactive exercises
- Additional worksheets: printable worksheets for extra practice
- Teacher's resource: comprises lesson plans
- Virtual lessons: consist of pre-recorded video lessons
- AR (Augmented Reality) App both for Android and iOS: turns books into smart books with better visualisation and concept clarity

It is a concerted attempt to make the series more useful for the teachers, parents and kids. We hope this series will be quite helpful in achieving the goals set by the NEP 2020. However, we shall appreciate valuable and constructive feedback from teachers and parents to improve the books with every new edition.

-Publishers

Suggested Skills Under NEP 2020



In a Nutshell

It provides a quick-review of important points at the end of every chapter.

Lab Activity

It encourages practice and revision of chapter-related concepts in the lab.

Online Link

URL given here directs students to explore more about the chapter.

Keyboard Shortcut

It teaches key combinations in most steps to perform certain actions quickly.

Start

Project-based Chapter

It focuses on enhancing practical knowledge of students while they go through the chapter.

Group Discussion

It encourages group interaction on a topic to enhance confidence and encourage speaking skills.

Tasks

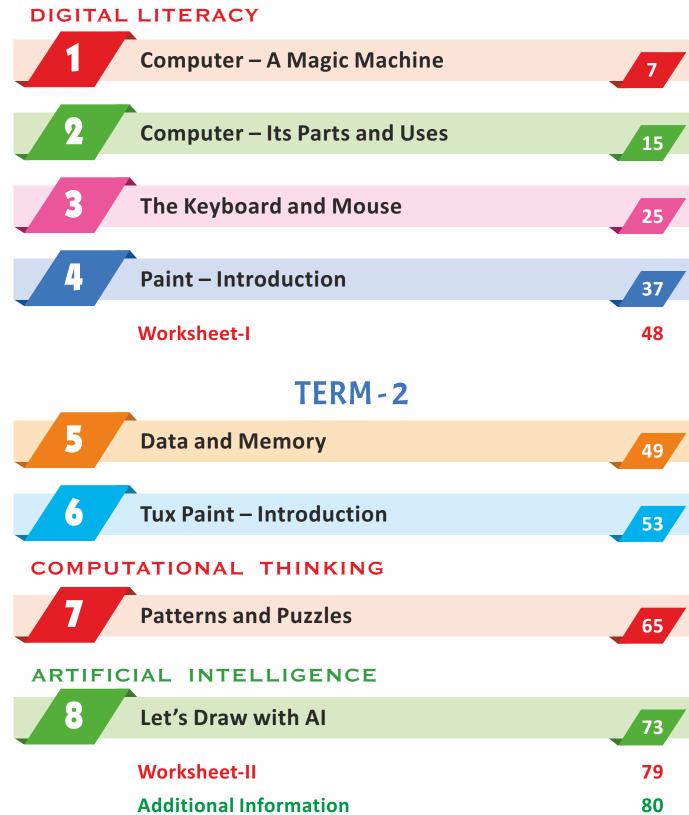
S. No.	Date	Lesson Name	Teacher's Signature

Performance Analysis

Date	Test	М	Marks Obtained		
		Theory	Practical	Total	Remarks

CONTENTS

TERM - 1



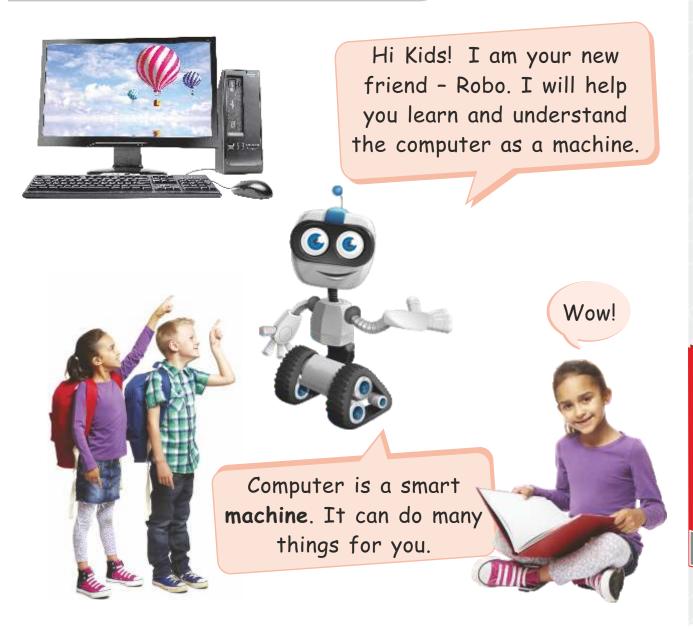
DIGITAL LITERACY TERM-1 Computer – A Magic Machine

After completing this chapter, you will be able to:

- Recognize natural and man-made things.
- Identify the different types of machines.
- Identify computer as a machine.
- Understand the characteristics of a computer.

Introduction to Computer

JECTIVES

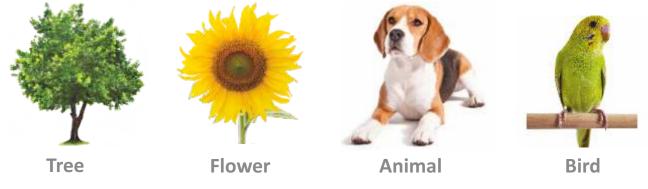


There are many things around us. Some of these things are **natural** and some are **man-made**.



Natural Things

We see so many things around us, such as trees, flowers, animals, birds, clouds, and mountains.



Nature has created all these things.

That is why, they are called Natural Things.

Man-Made Things

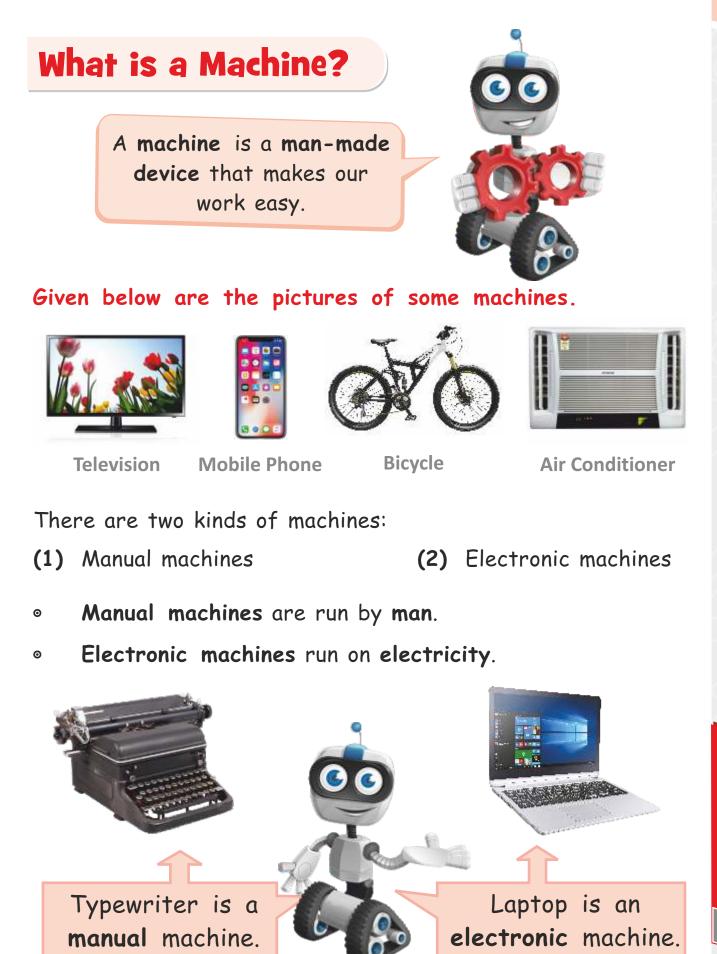
We also see many other things around us, such as pencil, chair, ball, school bag, television, mobile phone, and bicycle.

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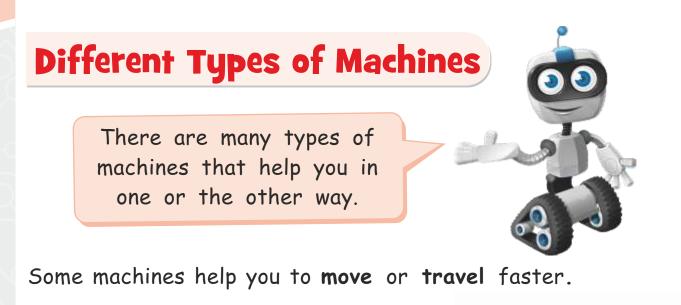


Man has created all these things.

That is why, they are called Man-Made Things.



COMPUTER SCIENCE- FS 4



CarSicycleBicycle

Some machines help you to do work with ease, at home.







Vacuum Cleaner



Washing Machine

Some machines entertain you.







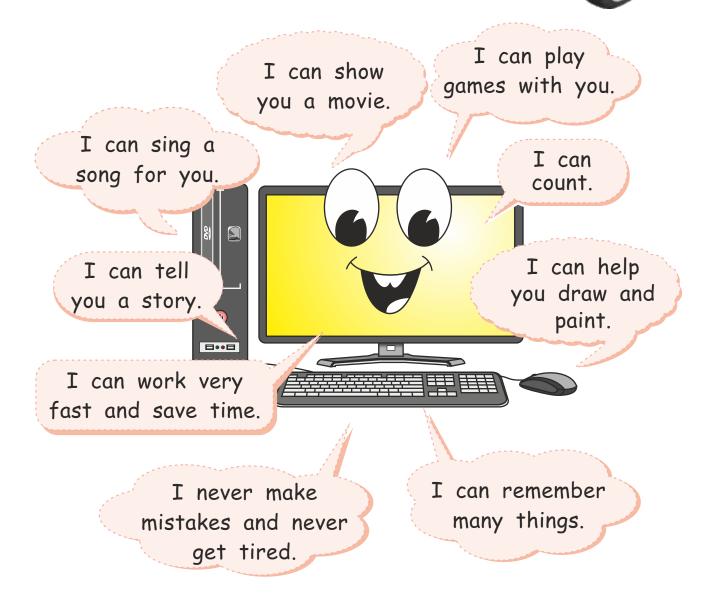
Music System





Characteristics of a Computer

A computer is an electronic machine. It does many things and makes our work easier. Let the computer tell itself what all it can do for us.



In a Nutshell

• A machine is a man-made device that makes our work easy.

- Manual and electronic machines are two kinds of machines.
 - A computer is an electronic machine that works very fast.
 - A computer never makes mistakes and never gets tired.

Exercises

 \odot

 \odot

A. Tick $[\checkmark]$ the correct answer.

1.	is a smart machine.	
	a. Computer 📄 b. Bicycle 📄 c. Human	
2.	Machines make our work	
	a. boring 🛛 b. easy 📄 c. difficult	
3.	We can play on a computer.	
	a. machines 📃 b. flowers 📃 c. games	
Wri	ite 'T' for True and 'F' for False statements.	
1.	Nature has created natural things.	
2.	Manual machines run on electricity.	
3.	A computer can do many things.	
Fill	in the boxes.	
1.	A computer is a M C I E .	
2.	A computer never makes M S T K E	
3.	A computer can show you a M V E .	
App	plication-based Question Problem Solving Skill 🔞 🔳	x 🗉
tim	ash wants to create a drawing and at the same e he also wants to listen to music. Which ctronic machine should he use?	himation

B.

C.

D.

Activity Section



A. Tick $[\checkmark]$ the correct picture shown below.

1. Your father wants to reach office quickly. He should go by:







2. Your brother wants to go to the sixth floor of the mall quickly. He should use:







B. Tick $[\checkmark]$ the machines used in our home.



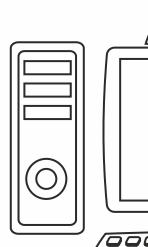
Activity Write

Write the letters of English alphabet of the given number positions. Complete the word. One has been done for you.

3rd	15th	13th	16th	21st	20th	5th	18th
\mathbf{C}							
			· · · · · · · · · · · · · · · · · · ·				

Activity Fun

This is the picture of a computer. Colour it using crayons.





Art Integration

Students will learn to color as well as learn about computer system.

Lab Activity

GCompris is a free educational software suite comprising of many fun activities for children aged 2 to 10 years. You can download GCompris from the Internet by using the link: https://gcompris.net/downloads-en.html



Open the Educational Suite GCompris [🥘].

- 1. Click on this icon [🍻] from the top of GCompris.
- 2. Click on Baby Puzzle [



PLAYING METHOD



You can play this game by moving or dragging a **piece** of puzzle with the mouse to the gray-colored puzzle.

You can use the **rotation** button if you need to rotate the piece of puzzle. Your level in the game increases as you complete the puzzle.

Skill Formation

This activity increases the cognitive skills and spatial intelligence in students.

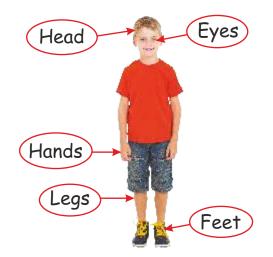
Computer – Its Parts and Uses

After completing this chapter, you will be able to:

- Recognize the four main parts of a computer.
- Identify the purpose of these parts.
- Understand the different uses of a computer.

Hello Friends! Would you like to know more about computers? Let us start.

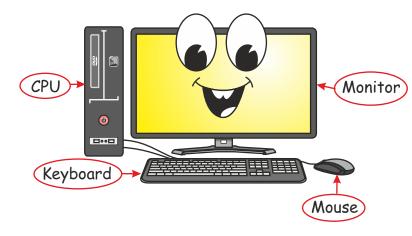
Parts of a Computer



BJECTIVES

Our body has different parts. Every part in our body has some special function to perform. For example—eyes are used for seeing, hands for writing, and legs for walking.

Similarly, a computer also has different parts.



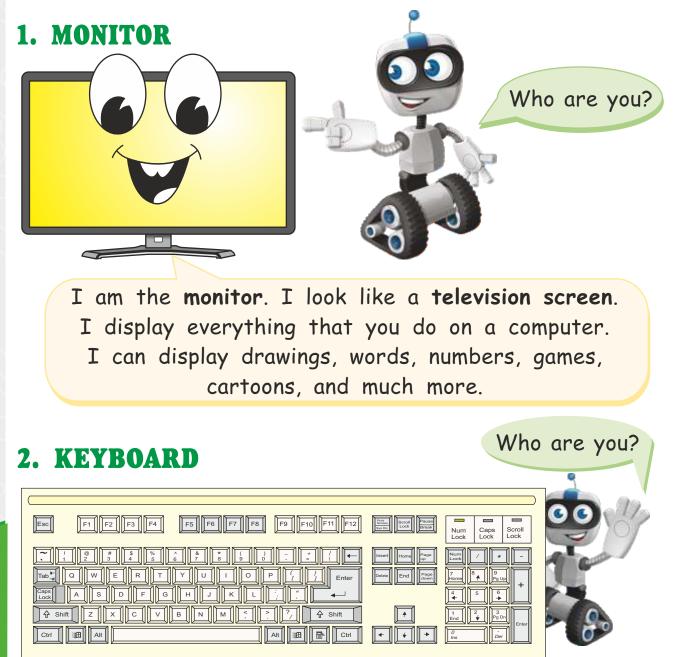
A computer has **four** main parts.

These are — CPU, Monitor, Keyboard and Mouse.

These parts together help a computer system to work.

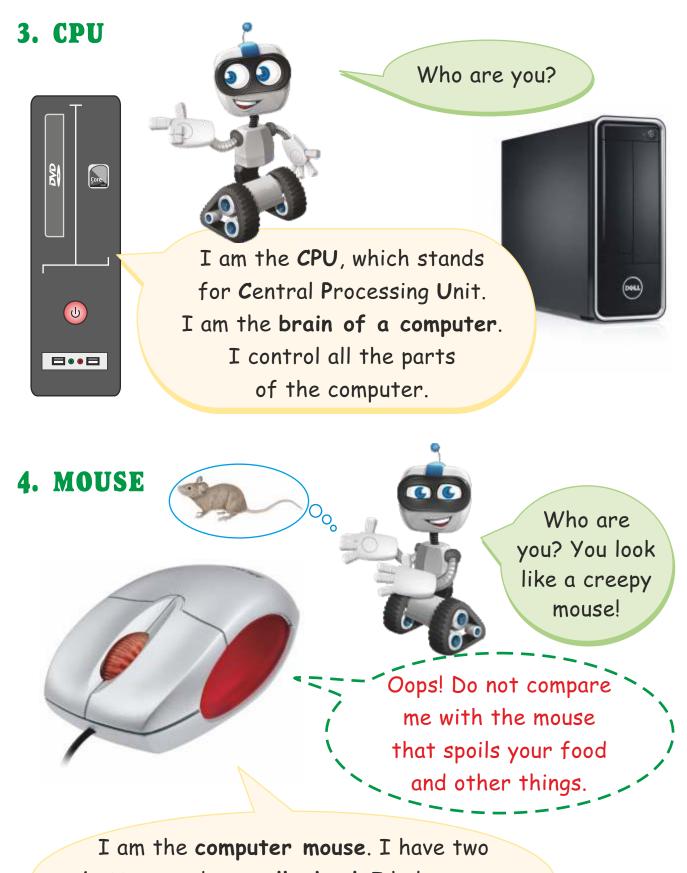
Functions of Computer Parts

Now, you will learn about the functions of different computer parts. These parts will tell you about their functions themselves!



I am the **keyboard**. I have many buttons called **keys**. I am used to type words and numbers on a computer.

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buttons and a **scroll wheel**. I help you to draw, paint and play games on a computer.

COMPUTER SCIENCE- FS 4



Hello Kids! Now, I am going to tell you about the uses of a computer.

DRAWING AND COLORING

A computer can help you draw and paint.



You can draw and paint anything very easily just by using the mouse.

PLAYING GAMES



You can play lots of games on a computer. Games such as boxing, cricket, tennis and many others can be played on it.

WATCHING MOVIES AND CARTOONS

A computer can show you movies and cartoons.





Computer can be used for watching movies and cartoons. You can watch movies and cartoons such as **Superman** and **Donald Duck**.

PLAYING MUSIC



A computer can play music for you.



You can listen to songs and rhymes with the help of speakers attached to the computer.

TYPING

A computer can type words, sentences and numbers.



You can type your name, class, roll number and anything on the computer by using a keyboard.

SEARCHING ON THE INTERNET



You can search information on any topic on the computer by using the Internet.

CHATTING

A computer can help you in chatting. friend Do you k

You can chat with your friends and family members by exchanging typed messages on the computer.

SAVING



You can store your work in a computer for future use. It is also called saving. Once you save your work properly, it never gets lost. You can review your work anytime later.

In a Nutshell

- A computer has four main parts that help it to work.
- Monitor displays everything we do on a computer.
- Keyboard is used to type words and numbers on a computer.
- CPU controls all the parts of the computer.
- We can draw and paint quickly and easily on a computer.
 - A computer can entertain us by showing movies and cartoons.
 - A computer can store our work for future use.



A. Tick $[\checkmark]$ the correct answer.

1.	The monitor looks like a screen.	
	a. CPU D. mobile C. television	
2.	Keyboard is used to type and number	S.
	a. words 📄 b. songs 📄 c. videos	
3.	A computer mouse has buttons.	
	a. two 📃 b. three 🗌 c. four	
4.	We can listen to songs with the help of	••
	a. keyboard 🔵 b. speakers 🔵 c. mouse	
Write	e `T' for True and `F' for False statements.	
1.	A computer has three main parts.	
2.	The CPU has many buttons called keys.	
3.	We can play games on a computer.	
4.	A computer can help us in chatting.	
5	A computer can store our work for future use	

B.

C. Who am I?

1. I have many buttons which are used to type numbers and words.



2. I help you to draw lines, paint shapes and play games.



3. I am the brain of a computer.

D. Fill in the boxes.

· 📥

F.

1. We can watch M V S and cartoons on a computer.

Ρ

- 2. We can draw and P I T shapes using mouse.
- 3. We can play many G M S on a computer.
- 4. We can T P our name and class on a computer.
- 5. We can S A C information on a computer.

E. Write the use of a computer by looking at the picture.

1.			
2.			
Ap	plication-based Question	Self Awareness Skill 💄	
any	e computer teacher asked Rahul thing at home which resembles nitor. What is it?		Animation

Activity Section

Activity Find and Write

Find the missing part of each of the following computers and write its name in the space given below.







Lab Activity

Open the Educational Suite GCompris [🙆].

 Click on this icon [] from the top of GCompris.

Skill Formation

- This activity enhances the cognitive skills of students.
- 2. Click on Find your left and right hands [🛒].



PLAYING METHOD

You can play this game by clicking on **Left hand** or **Right hand** button, depending upon the displayed hand on the screen.

You have to identify right and left hands from different points of view.

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The Keyboard and Mouse

After completing this chapter, you will be able to:

- Understand the various features of a keyboard.
- Identify the different types of keys and their functions.
- Learn about the different parts of a mouse.
- Understand the different functions of a mouse.

Hey Kids! You have already learnt about computer parts. Now, you are going to learn to work with keyboard and mouse.

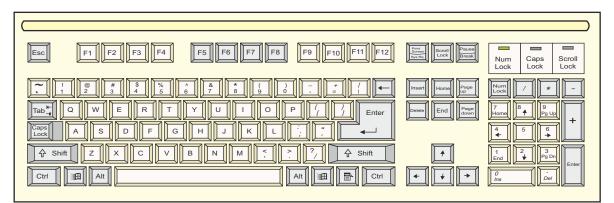


Keyboard

BJECTIVES

You use pencil to write in your notebook. In the same way, a **keyboard** is used to write on a computer.

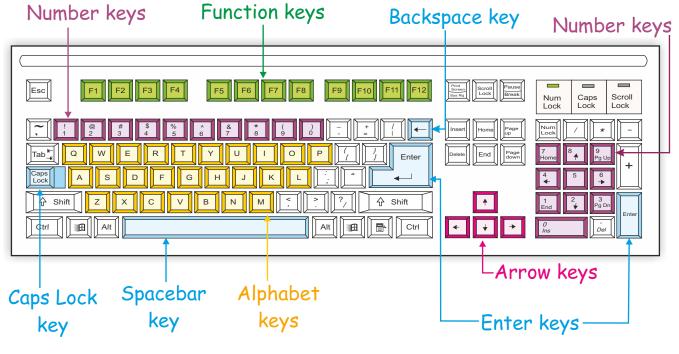
Writing on a computer using the keyboard is called typing.



A Keyboard

FEATURES OF KEYBOARD

- Keyboard is one of the main parts of the computer, which is used to type on it.
- It has many buttons, which are called keys.
- There are 101 to 105 keys on the keyboard.
- The keys on the keyboard are mainly divided into five groups:
 - 1. Alphabet keys (A to Z)
 - 2. Number keys -(1, 2, ..., 9, 0)
 - 3. Special keys (Enter, Spacebar, Caps Lock, Backspace, etc.)
 - 4. Function keys (F1 to F12)
 - 5. Arrow keys (Up, Down, Left, and Right)



Keys on a Keyboard

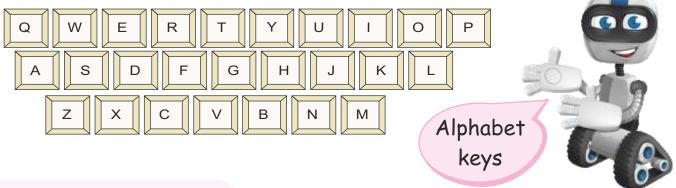
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Now, you will learn about these keys and their functions in detail.

Alphabet Keys

There are 26 Alphabet keys with the letters A to Z marked on the keyboard. These keys help you type words and sentences.

The keyboard does not have keys in an alphabetical order like A, B, C and so on.



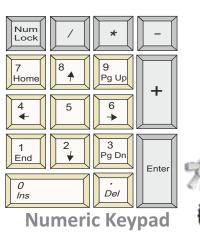
Number Keys

The keys marked with digits 1, 2,, 9 and 0 are the Number keys. They are ten in number. They are used to type numbers and digits.



Number keys are present at two places on the keyboard:

- Above the upper row 1 of the Alphabet keys
- 2. On the far right of the keyboard, also called the Numeric keypad



Number Keys

Number

keys



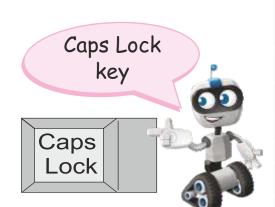
Special Keys Enter keys **ENTER KEY** Enter key is used to move the Enter cursor to the next line while typing. Enter key is also called **Return key**. There are **two** Enter keys on the Enter keyboard. What is a cursor? A cursor is a small blinking line 🗌 on the monitor. **SPACEBAR KEY** Spacebar is the longest key on the keyboard. It is used for giving a blank space to the right of a character. P Spacebar key Type a sentence-'I love my country'. Without using the Spacebar, it will look like, 'Ilovemycountry'. Now, type the sentence using the **Spacebar** key. I love my country. space

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First type I, then press the **Spacebar** key. Type love and press the **Spacebar** again. Then, type **my**, press the **Spacebar** again, and then type **country**. In this way, you have typed a complete sentence correctly with proper space.

CAPS LOCK KEY

Caps Lock is an On/Off key. If the Caps Lock key is **On**, capital letters (A, B, C) are typed. If the Caps Lock key is **Off**, small letters (a, b, c) are typed.



BACKSPACE KEY

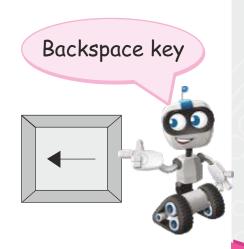
Backspace key is used to erase the letters or numbers to the left of the cursor.

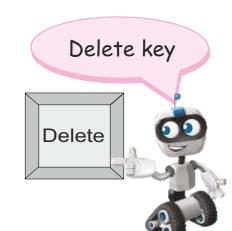
This is the last key in the row of Number keys, marked with **backward arrow**.

DELETE KEY

Delete key is also used to erase the letters or numbers, but to the right side of the cursor.

You can also erase the selected text or graphics, using this key.



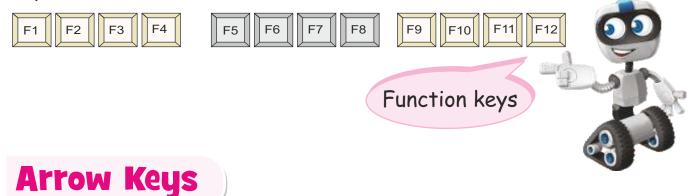


COMPUTER SCIENCE- FS 4

Function Keys

There are twelve Function keys marked with F1 to F12. These keys are used to perform different functions.

Function keys are located on the topmost row of the keyboard.



There are four Arrow keys which are used to move the cursor up, down, left and right on the monitor.



It is used to move the cursor **down**.



It is used to move the cursor one character right.



It is used to move the cursor one character left.



QWERTY keypad layout on a smartphone.

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Kids! After learning about keyboard, let us learn about the Mouse, which is another important part of a computer.



Mouse

A mouse is a pointing device, which is used to point, select or move items on a monitor.

A mouse is also used to draw and paint.

Mouse



Whenever you move the mouse, a small arrow also moves on the monitor. This small arrow is known as **mouse pointer**.

Mouse Pointer

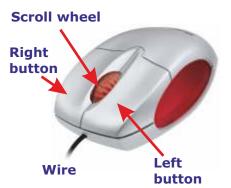
PARTS OF A MOUSE

A mouse commonly has two **buttons** and a small **scroll wheel** on it.

It also has a long wire attached to it.

HOLDING A MOUSE

- Keep your **palm** gently on the mouse.
- Keep your index finger on the left button.
- Keep your middle finger on the right button.
- To move the scroll wheel of the mouse, use your index finger.
- Always keep the mouse on the mouse pad to move it smoothly.





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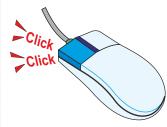


FUNCTIONS OF A MOUSE

Pressing the mouse button is called **clicking**. You can click a mouse button in different ways to perform different functions.

Single-Click

Pressing the left mouse button once is called **Sclick** single-click. It is used to select an item.



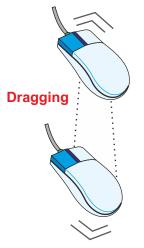
Double-Click

Pressing the **left** mouse button two times (twice) quickly is called **double-click**. It is used to open a file or folder.

Right-Click

Pressing the **right** mouse button once is called **right-click**. It is used to open a pop-up menu.





Dragging

Clicking and holding the left button while moving the mouse is called **dragging**.

You can drag the mouse to move the object from one place to another on the monitor.

You can also drag the mouse to draw shapes and pictures.

SCROLL WHEEL

Scroll wheel is located between the left and right mouse buttons. It is used for scrolling up and down on the monitor.



Scroll Wheel

In a Nutshell

- A keyboard is used to type on the computer screen.
- There are 26 Alphabet keys used to type words and sentences.
- There are ten Number keys used to type numbers.
- There are four Arrow keys for moving the cursor.
- Function keys are used to perform different functions.
- Mouse is a pointing device which is used to draw and paint.
- A mouse has two buttons and a small wheel on it.

Single-click, double-click, right-click and dragging are different functions of the mouse.



A. Tick $[\checkmark]$ the correct answer.

 a. keyboard b. printer c. mouse 2. There are Alphabet keys on the keyboard. a. 12 b. 20 c. 26 3. Enter key is also called key. a. Exit b. Return c. Function 4. Backspace key is used to erase the letters to the of the cursor. a. middle b. right c. left 5. A mouse is a device. a. holding b. pointing c. typing 	1.	Α	is use	d to type in	to a com	puter.		
 a. 12 b. 20 c. 26 3. Enter key is also called		a. keyboard		b. printer		c. mouse		
 3. Enter key is also calledkey. a. Exitb. Returnc. Function 4. Backspace key is used to erase the letters to theof the cursor. a. middleb. rightc. left 5. A mouse is adevice. 	2.	There are		Alphabet	keys on	the keyboard	d.	
 a. Exit b. Return c. Function 4. Backspace key is used to erase the letters to the of the cursor. a. middle b. right c. left 5. A mouse is a		a. 12		b. 20		c. 26		
 4. Backspace key is used to erase the letters to the of the cursor. a. middle b. right c. left 5. A mouse is a	3.	Enter key is a	lso cal	led	key.			CON
a. middle b. right c. left 5. A mouse is a device.		a. Exit		b. Return		c. Function		COMPUTER SCIENCE- FS
a. middle b. right c. left 5. A mouse is a device.	4.	Backspace k	ey is	used to	erase t	he letters	to the	SCIEN
5. A mouse is a device.		of	the c	ursor.				NCE- I
		a. middle		b. right		c. left		FS 4
a. holding 🛛 b. pointing 🔵 c. typing 🔵	5.	A mouse is a .		device.				33
		a. holding		b. pointing		c. typing		

Write 'T' for True and 'F' for False statements. B.

- Alphabet keys are used to type words. 1.
- 2. Spacebar is the shortest key on the keyboard.
- There are ten Function keys on the keyboard. 3.
- We keep index finger on the left mouse button. 4.
- We cannot drag pictures using a mouse. 5.
- Pressing the left mouse button once is called 6. single-click.

Guess and complete the name of the following key(s). С.

1 We can type your name.



When I am ON, I type capital letters. 2.



3. I can move the cursor to the next line.

E Т R

I can erase the letters and numbers from left. 4.



Application-based Question Effective Communication Skill D.

The computer teacher asked Raghu to identify and name the longest key on the keyboard. He could easily identify it but was unable to tell the name. Help Raghu to name it.



Activity Section Activity Tick and Fill Tick $[\checkmark]$ the correct key. One has been done for you. 0 1 C O MPUTER Q V в 2. 5 5 = 10 R - | + N MOU.E 3. 0 Q A S KEY OARD 4. V в + _ _ N 0 5. MONIT R s A Activity Unscramble Unscramble the following words by using the clues. Write letters to complete the words. 1 N 0 Ι E Е С Ν G Т Ρ Ι V D Ι Clue: A Mouse Ρ Ι Ν Ι С Ν D 2. L Μ Е G E Ι D D Ι N F R Clue: It is kept on right mouse button. E F Μ D L Ν 3. E S 0 U Μ Ι R Т E Ρ N 0 Clue: A small arrow on the screen Ρ Т U Е Μ N 4. R G G Α Ν D G Ι Clue: Pressing, holding and moving a mouse

D

Α

G

Ι

G

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Lab Activity-1

Open the Educational Suite GCompris [🥘].

- 1. Click on this icon [🌺].
- 2. Click on Simple Letters [



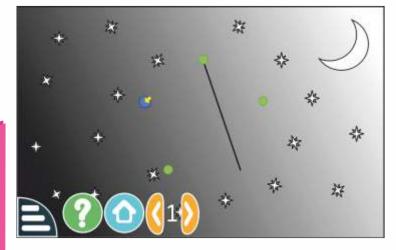
PLAYING METHOD

To play this game, type the falling letters from the sky before they reach the ground. Your level in the game increases when you type all the letters correctly.

Lab Activity-2

Open the Educational Suite GCompris [🥘].

- 1. Click on this icon [🌺].
- 2. Click on Click and draw [💥].



Skill Formation

These activities aid in developing cognitive and fine motor skills among students.

PLAYING METHOD

Draw the picture by clicking on each **blue point** which appears in a sequence. When you click on the blue point, a line gets drawn to complete the picture.

The next picture appears only when you click all the blue points.

Group Discussion

Divide the students into two groups and discuss the topic – 'Computer Mouse vs Real Mouse'.

Paint – Introduction

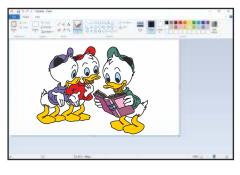
After completing this chapter, you will be able to: BJECTIVES

- Start Paint program.
- Understand various tools in the Tools group.
- Draw different shapes using Shapes group.
- Save your work for future.

Hi Kids! I know all of you like drawing and coloring. Now, I will tell you how to draw and color on a computer. Let us start.

Paint

Paint or **MS-Paint** is a colorful drawing program developed by Microsoft. It is used to draw, color and edit pictures and shapes.



STARTING PAINT PROGRAM

To start Paint, follow the steps given below.



The **Paint** program appears.

1. Click on Start icon.

The Start menu appears.

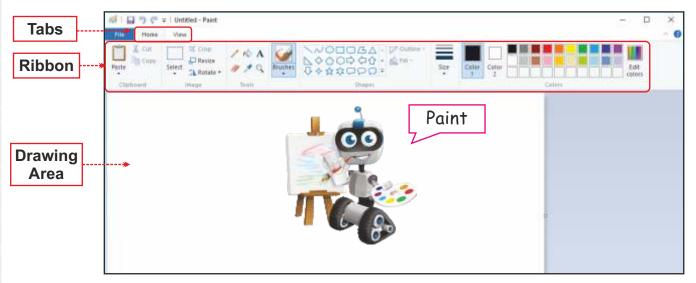
A list of all programs appears on the left.

You can scroll down to see Windows Accessories.

- 2. Click on Windows Accessories.
- 3. Now, click on Paint.

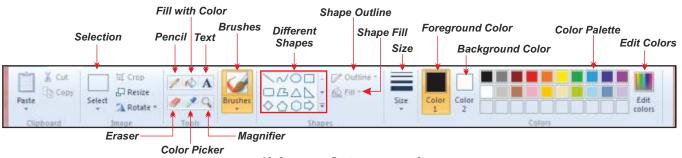
PARTS OF PAINT PROGRAM

The Paint program consists of many parts as shown below.



Tabs: Home and **View** are two main tabs which contain different commands. When you click on any tab, a ribbon appears.

Ribbon: It contains different **groups**. Each group contains different **tools**. These tools are required to make a drawing.



Ribbon of Home tab

Drawing Area: It is the blank area where you draw and paint.

COLORS GROUP

Colors group is in the right side of the Ribbon. It is used to select the color you want to fill in your drawing.

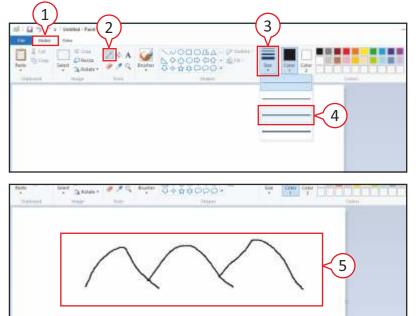


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Tools in the Tools Group

PENCIL TOOL

Pencil tool is just like a real pencil that you use for making drawings. You can draw straight, wavy or curved line with it.



1. Click on Home tab.

A 🔊

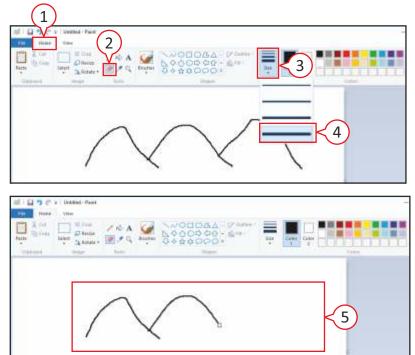
Tools

Brushe

- 2. Click on Pencil tool.
- 3. Click on Size box.
- Select the width of line.
- In the drawing area, drag the mouse and start making your drawing.

ERASER TOOL

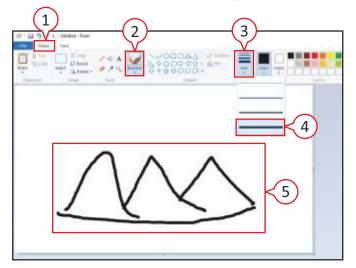
Eraser tool is just like a real eraser which you use to erase your drawings.



- 1. Click on Home tab.
- 2. Click on Eraser tool.
- 3. Click on Size box.
- Select the width of the eraser.
- Drag it on your drawing in the drawing area to erase the required part of the drawing.

BRUSHES TOOL

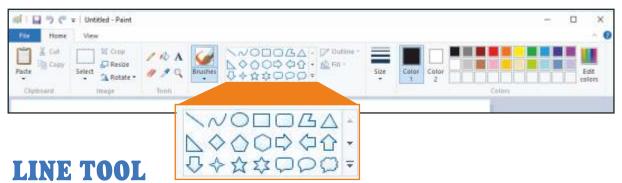
Brushes tool is used just like a real paint brush.



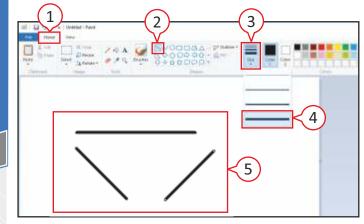
Shapes Group

- 1. Click on Home tab.
- 2. Click on Brushes.
- 3. Click on the Size box.
- Select the width of the brush.
- Now in the drawing area, drag the mouse and start making your drawing.

You can use the **Shapes** group in Paint to draw different types of shapes such as rectangle, oval, triangle, arrows and many more.



By using **Line** tool, you can draw straight and slant lines of varying thickness.

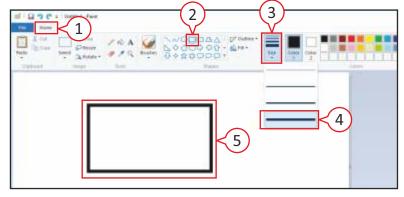


- 1. Click on Home tab.
- 2. Click on Line tool.
- 3. Click on the Size box.
- 4. Select the width of line.
- 5. Drag the mouse to draw the line in any direction.

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RECTANGLE TOOL

You can draw rectangle and square with Rectangle tool.

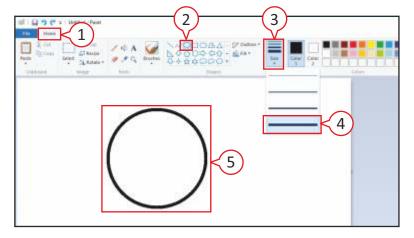


- 1. Click on Home tab.
- 2. Click on Rectangle tool.
- 3. Click on the Size box.
- Select the border width of rectangle.
- 5. Drag the mouse to make rectangle.

You can also draw a rounded rectangle, triangle and other shapes by using this method.

OVAL TOOL

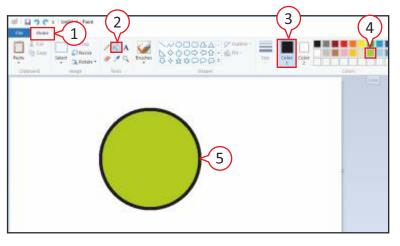
Oval tool is used to draw circle and oval shapes.



FILL WITH COLOR TOOL

- 1. Click on Home tab.
- 2. Click on Oval tool.
- 3. Click on the Size box.
- Select the border width of circle.
- 5. Drag the mouse to make oval or circle.

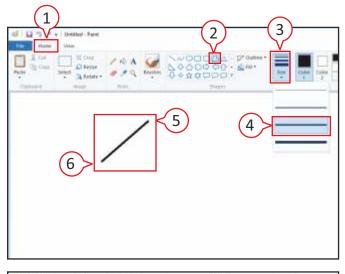
You can fill color in your drawing using Fill with color tool.

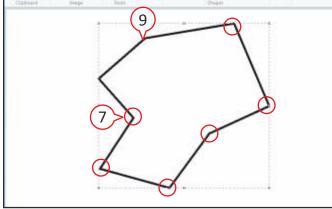


- 1. Click on Home tab.
- 2. Click on Fill with color tool.
- 3. Click on Color 1 box.
- Click on any color from the Color Palette.
- Click inside the area where you want to color.

POLYGON TOOL

Polygon tool is used to make a shape with any number of sides.





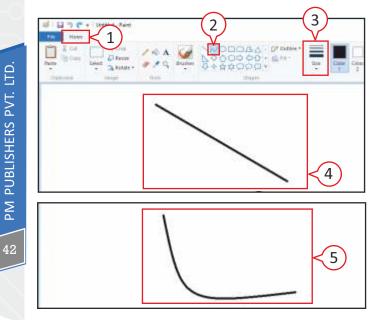
- 1. Click on Home tab.
- 2. Click on Polygon tool.
- 3. Click on the Size box.
- 4. Select the width of line.
- Press the left button and drag the mouse.
- 6. Release the mouse button to make a line.
- 7. Now, click anywhere in the drawing area.

A line appears attached to your previous line.

- 8. Repeat step 7 until you make the final shape.
- 9. Now, click on the starting point to complete the shape.

CURVE TOOL

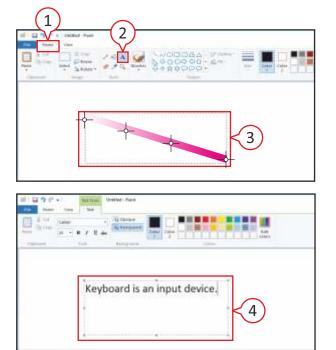
You can draw curved lines with Curve tool.



- 1. Click on Home tab.
- 2. Click on Curve tool.
- 3. Click on the Size box and select the line thickness.
- 4. Drag the mouse to make a line.
- Now, click on the line and drag it to make a curve.

TEXT TOOL

You can type in Paint with the help of **Text** tool.



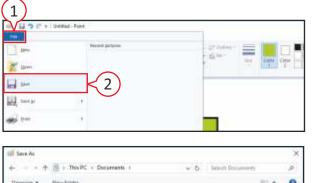
- 1. Click on Home tab.
- 2. Click on Text tool.
- Drag the mouse pointer in the 3. drawing area.

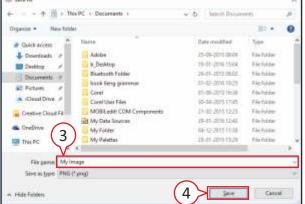
A text box appears with the cursor blinking inside.

4. Type your text in the text box using keyboard.

Saving Your Drawing

While drawing, you must save it side-by-side for future use. Follow these steps to save your drawing.





1. Click on File option.

File menu appears.

2. Click on Save option.

The Save As dialog box appears.

- 3. Type the name for the drawing in File name text box.
- 4. Click on Save to save your drawing.



Project: Creating a Kite

Start

Fig. A

Fig. B

Fig. C

Fig. D

Skill Formation

This multidirectional activity will enhance spatial intelligence among the students.

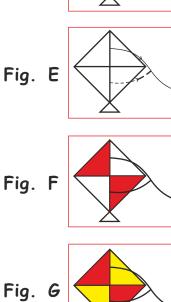
Kids! Let us draw a kite by using the various tools of Paint. 1. Click on the Line shape [\]

- Click on the Line shape [\] with mouse pointer and bring the pointer to the drawing area.
- Click and hold the left mouse button and drag it in the drawing area as shown in Fig. A.
- 3. Release the mouse button.
- 4. Now, drag the mouse in the other direction as shown in **Fig. B**.
- 5. Continue dragging the mouse to complete the outline as shown in **Fig. C**.
- 6. Now, draw lines in the middle to join opposite corners as shown in **Fig. D**.
- 7. Click on the Brushes tool in the toolbox.
- 8. Click and drag the mouse to make thread in the kite as shown in **Fig. E**.
- 9. Click on Fill with color tool and select Color 1 box.
- 10. Select red color from the Color Palette.
- 11. Click on the opposite boxes to fill with red color as shown in **Fig. F**.
- 12. Similarly, fill yellow color in the other boxes as shown in **Fig. G**.

Your colorful kite is ready and your project is complete.



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In a Nutshell

- Paint is a drawing program used to draw and edit objects.
- Ribbon contains different groups, which contain different commands required to make a drawing.
- Colors group is used to select the color to fill in the drawing.
- Pencil tool is used to draw straight, wavy and curved lines.
 - Shapes group is used to draw different types of shapes.

Text tool is used to type in Paint.



A. Tick $[\checkmark]$ the correct answer.

..... program is used to draw and color objects. 1. c. Calculator b. Notepad a. Paint contains different groups. 2. b. Tab c. Ribbon a. Canvas tool is used to draw straight and slant lines. 3. a. Line b. Circle c. Brush tool is used to type within a drawing. 4. b. ۵. С.

COMPUTER SCIENCE- FS 4

45

B. Write 'T' for True and 'F' for False statements.

- 1. Colors group is at the left side of the ribbon.
- 2. Oval shape is used to delete a drawing.
- 3. Curve shape is used to draw straight lines.
- 4. We can type text in Paint program.

C. Fill in the boxes.

- 1. P N L tool is used to draw straight and wavy lines.
- 2. E S R tool is used to erase any part of a drawing.
- 3. S A S group is used to draw different types of shapes.

D. Write the names of the following tools.

E. Answer the following questions.

- 1. What is the use of Paint program?
- 2. Which tool is used to make a shape with any number of sides?

F. Application-based Question

Problem Solving Skill 🔞

In MS-Paint, Yash made a figure. Now, he wants to add his name and class in it. As he does not know which tool he should use to do it, he needs your help. Help him by telling the tool's name.



Activity Section

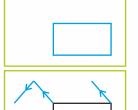
Lab Activity

↓ Art Integration

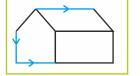
Students would learn about shapes and their use in creating a drawing.

A. Draw a hat by following the given steps.

1



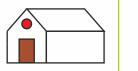
- Click on the **Rectangle** tool and drag it in the drawing area to draw a rectangle shape.
- 2. Now, click on **Line** tool and draw three tilted lines as shown in the figure.



- 3. Using the same selection, draw three straight lines as shown.
- 4. Click on the **Rectangle** tool to draw the door as shown in the drawn figure.



5. Now, draw a small circle above the door using **Oval** tool.



6. Now, color the door with brown and the circle with red color using Fill with color tool.

Skill Formation

This multi-step direction activity enhances the cognitive skills of the students.

B. Draw the following figure using different tools and shapes in Paint.



Skill Formation This activity promotes creativity and innovation of the students and aids in developing fine motor skills. COMPUTER SCIENCE- FS 4

Worksheet-I

Chapters 1 - 4

Α.	Tick	$[\checkmark]$ the correct answer.				
	1.	Natural things are created by				
		a. man 📄 b. animal 📄 c. nature 📄				
	2.	controls all the parts of computer.				
		a. Keyboard 📄 b. Mouse 📄 c. CPU 📄				
	3. We can listen to on a computer.					
		a. songs 📄 b. sums 📄 c. colors 📄				
	4.	Function keys are located on the row of the keyboard.				
		a. lower 🛛 b. middle 💭 c. topmost 💭				
	5.	contains different groups.				
		a. Canvas 📄 b. Tab 📄 c. Ribbon 📄				
Β.	Wri	te 'T' for True and 'F' for False statements.				
	A computer works very slow.					
	2.	Mouse has two buttons and a scroll wheel.				
	3.	Computers cannot be used for playing games.				
	4.	Oval tool is used to delete a drawing.				
	5.	In Paint, we can make a curve from Curve tool.				
С.	Fill	in the boxes.				
	1.	Laptop is an E E R N machine.				
	2.	We can search any information using I T R T.				
	3.	We can TP our name on the computer.				
	4.	PLGN tool is used to make a shape with any number of sides.				

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TERM - 2

Data and Memory

After completing this chapter, you will be able to:

- Know how a computer works.
- Understand the concept of data and information.
- Understand the need of memory in a computer.
- Understand the difference between human memory and computer memory.

Hi Friends! After having fun with Paint, now you will learn how a computer works.

How Computer Works?

In school, when your teacher gives certain instructions like open your notebook, draw a line, etc., you follow them.





ECTIVES

Similarly, the computer also needs some kind of instructions from you to work. The instructions given by you to a computer are in the form of **data**.

Computer follows those instructions, processes them and shows you the final result. The final work done by the computer is in the form of **information**.



You have learnt that to work with a computer, you need to give it some kind of data and instructions to get information. Let us understand it.



Data is a collection of unorganized words, numbers and images. For example:



Information is the meaningful and organized form of data. Given below is the information based on the data given above.

> Rahul is in class 3. He is in section A. His roll no. is 8. His monthly fee is ₹5000.

The main work of a computer is to accept data from you and convert that data into information. Finally, it stores that information in its memory.



Memory

You remember your name, address, contact number, etc. because this information is stored in your **memory** (brain).

Similarly, computer can also remember the data and information by storing them in its **memory**. Computer has a larger memory than humans and does not forget anything.



Human Memory



Computer Memory

In a Nutshell

- Computer takes instructions from us in the form of data.
- Data is a collection of unorganized words, numbers and images.
- Information is the meaningful and organized form of data.
 - A computer remembers the data and information by storing them in its memory.



A. Tick $[\checkmark]$ the correct answer.

is a collection of unorganized words.
 a. Data
 b. Memory
 c. Information
 has a larger memory than humans.
 a. Computer
 b. Table
 c. Microwave

COMPUTER SCIENCE- FS 4

B. Write 'T' for True and 'F' for False statements.

- 1. Data is used to store information in a computer.
- 2. Information is the final work done by the computer.
- 3. A computer does not forget anything.

C. Fill in the blanks after unscrambling the letters.

Organized form of data 1 F Ι Μ N Ι Т N 0 R A 0 Used to remember things 2. Μ Μ E R 0 У

Activity Section

Lab Activity

Open the Educational Suite GCompris [🥝].

- 1. Click on 123 [🐻].
- 2. Click on Measures [______].
- 3. Choose the game Calendar [].

Skill Formation

This memory game promotes critical thinking, concentration and attention.

PLAYING METHOD

Read the instruction, select the correct date on calendar and then validate your answer by clicking on the OK button.

Set	Mare	Tel:	West.	The	74	.54
				1	2	3
34	5	6	. 7	В	9	1
13	12	13	14	15	16	3
18	19	20	21	22	23	2
25	26	27	28	29	30	3



Tux Paint – Introduction

After completing this chapter, you will be able to:

- Make drawings in the computer using Tux Paint.
- Know various components of Tux Paint.
- Use different tools to draw and color in Tux Paint.
- Open, Save and Quit Tux Paint.

Hi Kids! We will now work with another interesting and colorful drawing program, Tux Paint.

Tux Paint

BUFCTIVES

6

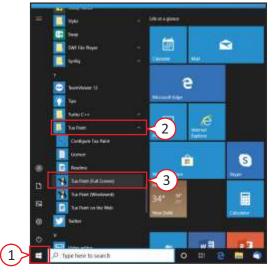
Tux Paint is a free drawing and coloring program. It is used to make colorful drawings with the help of different tools present in it.



Ш

STARTING TUX PAINT PROGRAM

To start Tux Paint, follow the steps given below.

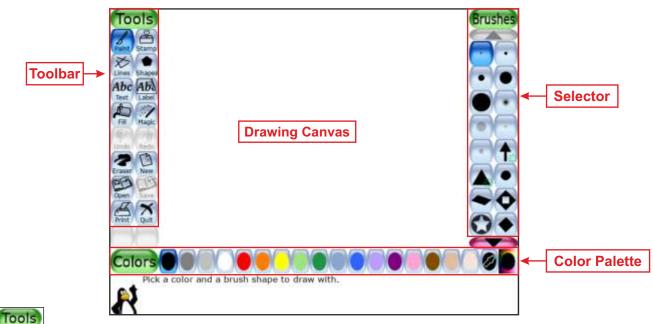


Click on Start icon.
 The Start menu appears.
 A list of all programs appears on the left.
 Scroll down to see Tux Paint.
 Click on Tux Paint.
 Sub-menu appears.
 Click on Tux Paint (Full Screen).

The **Tux Paint** program opens. You can now start working on it.

COMPONENTS OF TUX PAINT WINDOW

After opening Tux Paint, you get the following window.



Toolbar

The toolbar contains all the drawing and editing tools.

Drawing Canvas

It is the largest part of the screen where you draw.

Selector

Abc Ab.

Depending on the selected tool, the selector shows different options to choose from.

Color Palette

Colors

Color Palette helps you select and fill colors in your drawing.







Tux Paint was first created by **Bill Kendrick** for the Linux operating system. Now, it is available for Microsoft Windows, Apple Mac OS X and other platforms.





A cartoon version of Tux, **the Linux penguin**, appears at the bottom to give tips, hints, and other information.

Using Toolbar

NEW TOOL



New tool is used to start a new drawing. To open a new drawing, follow the given steps.



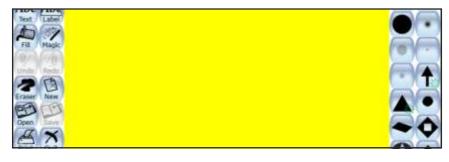


1. Click on New tool from the toolbar.

The color boxes and starter images appear to start a new drawing. (To see more color boxes or ready-made images and backgrounds, click the down arrow errow key.)



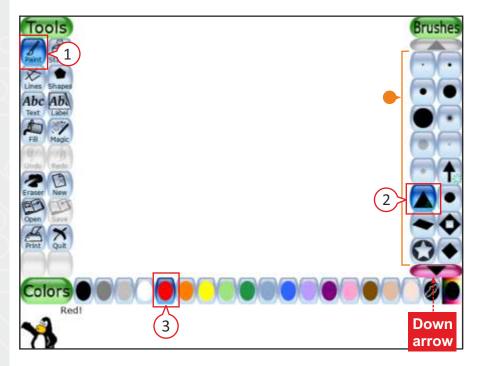
2. Double-click on any color box or ready-made image to make it appear on the drawing canvas.



The selected color or image appears on the drawing canvas.

PAINT TOOL

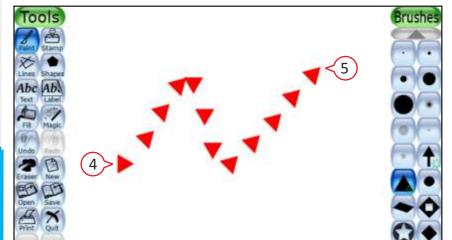
Paint tool is used to draw freehand drawing of your choice.



- Click on Paint tool from the toolbar.
- Different shapes and sizes of brushes appear in the selector.
- Click on the Brush pattern of your choice from the selector.

You can click on the **down arrow (EXTO)** of the **selector** to see more **Brush patterns**.

3. Click on any color from the Color Palette.



 Now, drag the mouse to make the drawing.

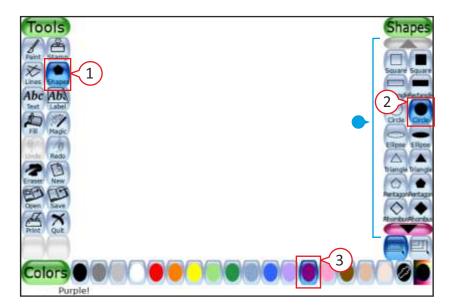
You will see the pattern drawn.

5. Release the mouse when finished.



SHAPES TOOL Shapes

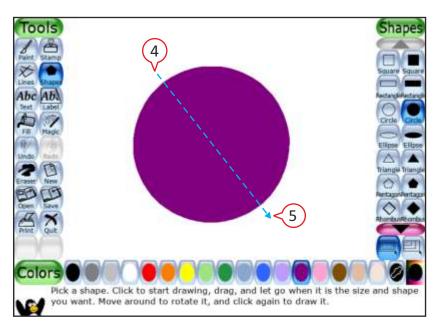
Shapes tool is used to draw different filled or unfilled shapes like circle, triangle, square, etc.



- Click on Shapes tool from the toolbar.
- Different shapes appear in the selector.
- Click on any desired Shape from the selector.

In this example, we have selected **filled circle** shape.

3. Click on any color from the Color Palette.



 On the canvas, drag the mouse to make the shape.

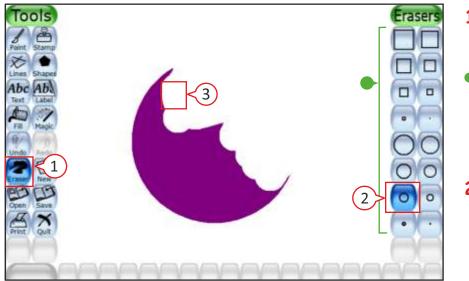
You will see the shape drawn.

5. Release the mouse when finished.



ERASER TOOL 🕿

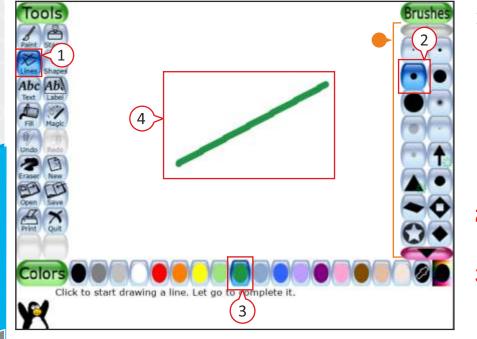
Eraser tool is used to erase any part of the drawing.



- Click on Eraser tool.
 - Different shapes and sizes of erasers appear in the **selector**.
- Click on any desired Shape from the selector.
- 3. Drag the mouse on that part of your drawing which you want to erase.

LINES TOOL 😹

Lines tool is used to draw straight lines.



- 1. Click on Lines tool.
 - Different brushes appear in the selector. You can click on arrows
 [] to see more brushes.
- Click on the desired brush.
- Click on any color from the Color Palette.

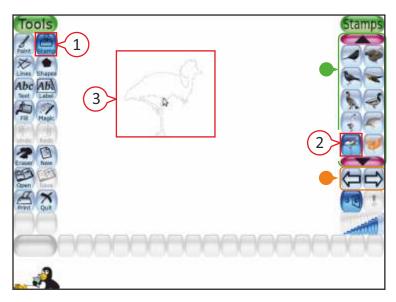
4. Press the left mouse button and drag it to make a line.

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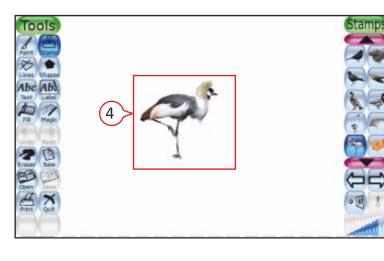
STAMP TOOL

Stamp tool is like a **rubber stamp** or a **sticker**. It is used to paste a pre-drawn picture, such as the picture of a cat, a flower, or a bird, on your drawing canvas.

Note: You need to install stamps from the official website of Tux Paint (www.tuxpaint.org) before working with stamp tool.



- 1. Click on Stamp tool.
 - A list of stamps appears in the **selector**. You can click **arrows** [******] to see more stamps.
- You can also click these arrows [] to see more categories of stamps like animals, birds, etc.
- 2. Click on any desired stamp from the selector.
- 3. Move your mouse on the canvas. An outline of the stamp follows the movement of mouse, showing where the stamp will be placed and how big it will be.



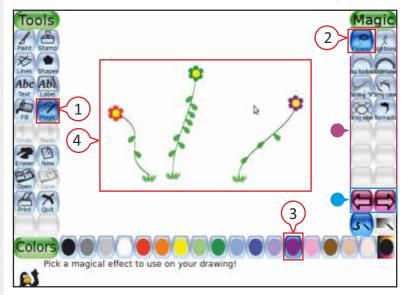
 Click anywhere on the drawing canvas to place the selected stamp.

Update Your Knowledge

You can place multiple images of the same stamp or different stamps on the canvas.

MAGIC TOOL

Magic tool is used to add special effects to the drawing.

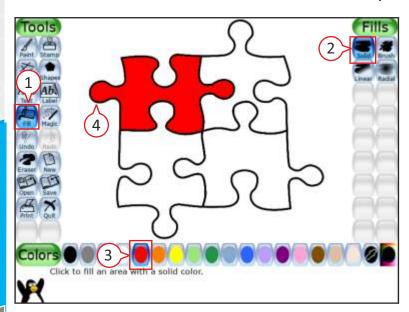


- 1. Click on Magic tool.
- A list of Magic tools appears in the **selector**.
- You can also click these arrows [] to see more magic tools.
- Click on a Magic tool (Flower) from the selector.
- 3. Click on any desired color from the Color Palette.
- 4. Now, depending on the selected Magic tool, you can either **click and drag**, or **simply click** the picture once.

The magic effect will be applied.

FILL TOO1 🦣

Fill tool is used to fill color in any closed shape.



1. Click on Fill tool.

A list of Fills appears in **selector**.

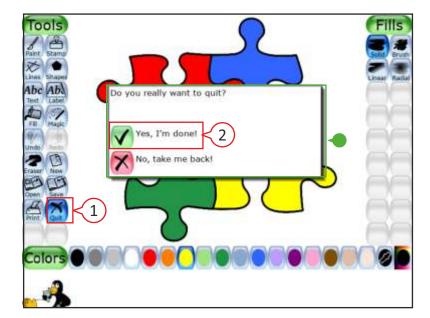
- 2. Click on the fill sytle.
- Click on any color from Color Palette.
- Take the mouse pointer inside the shape and click on it.

The color will be filled.

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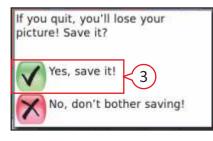
Quit Tool

After finishing your work, you must quit the program.



- 1. Click on Quit tool.
- A box appears which asks you whether you really want to quit or stay in the program.
- Click on 'Yes, I'm done!' button.

If you click on 'Yes, I'm done!' button and you have not saved the current image, one more box appears which asks you whether you want to save the image or not.



3. Click on 'Yes, save it!' button.

If it is a new image, then Tux Paint saves the image and quits.

If it is not a new image or already a saved image, a new box appears which asks you whether you want to replace the old one or create a new file.



Click on 'Yes, replace the old one!' button.

Tux Paint replaces the image and quits.

In a Nutshell

- Tux Paint is used to make colorful drawings with the help of different tools.
- The New tool is used to start a new drawing.
- Toolbar contains Paint tool, Shapes tool, Eraser tool, Lines tool, Stamp tool and Magic tool.
 - Fill tool is used to fill color in any closed shape.
 - After finishing our work, we must quit the program.



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B.

A. Tick $[\checkmark]$ the correct answer.

is a free drawing and coloring program.							
a. Tux Paint 📄 b. MS-Word 📄 c. WordPad 🦲							
tool is used to draw different filled or							
unfilled shapes.							
a. Paint 📃 b. Shapes 📃 c. Magic 📃							
tool is used to paste pre-drawn images on							
canvas.							
a. Lines 📃 b. New 🗌 c. Stamp 📃							
tool is used to fill color in any closed shape.							
a. Paint 🛛 b. Text 💭 c. Fill							
Write `T' for True and `F' for False statements.							
Toolbar contains all the drawing and editing tools.							
Paint tool is used to draw shapes.							
Lines tool is used to make freehand drawings.							

4. Quit tool is used to close the program.

C. Match the names of the tools with their pictures correctly.

	PAINT TOOL
	SHAPES TOOL
	FILL TOOL
	STAMP TOOL
Ø	MAGIC TOOL
8	LINES TOOL

D. Fill in the boxes.

- 1. D A I G canvas is the largest part of the screen where we draw.
- 2. The S L C O shows different options, depending on the selected tool.
- 3. M G C tool is used to add special effects.
- 4. F L tool is used to fill color in any closed shape.

E. Answer the following questions.

- 1. What is Tux Paint?
- 2. What is the use of Shapes tool?

In Tux Paint, Yash wants to draw a scene of jungle full of birds, animals and plants. Which tool should he use?

F. Application-based Question

Problem Solving Skill 🚷

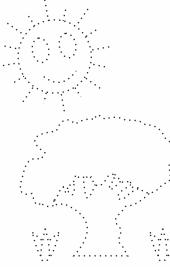


COMPUTER SCIENCE- FS 4 / 8

Activity Section

Activity Draw and Color

Join the dots to complete the picture given below and color it. Draw the similar picture in Tux Paint.





Draw the same picture in Tux Paint, using different tools.



Skill Formation

This lab activity promotes creativity and innovation of the students.

Skill Formation

This activity helps the students improve their fine motor skills and concentration power.

Art Integration

Students would learn joining the dots to complete a picture, color it and make it in Tux Paint.

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COMPUTATIONAL THINKING Patterns and Puzzles

After completing this chapter, you will be able to:

- Understand and identify the patterns around us.
- Break down a task into smaller parts.
- Arrange objects or data in a particular order.

Hi Friends! Let us enhance your creativity and problem-solving skills through repetitive patterns and puzzles.

Pattern

ECTIVES

Patterns are created when figures or shapes are arranged in a design. They are repeated over and over again.

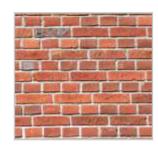
There are different types of patterns. Here are some examples.







Black and white stripes of zebra



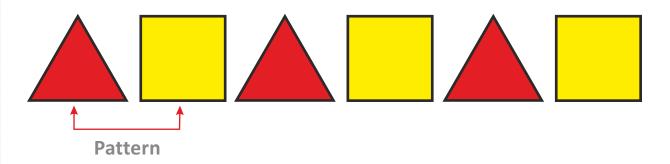
Bricks of wall

Design is the repetition of patterns of colors, shapes and lines.



Understanding the patterns helps you enhance your awareness about lines, shapes, numbers and colors.

Now, check the following design and observe the pattern.



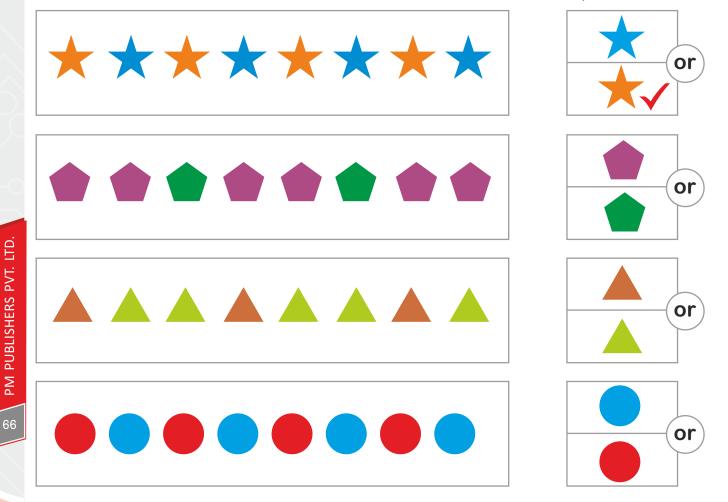
Here, you can see a **red triangle**, followed by a **yellow square** in repeat order. It leads to the formation of pattern.

Activity Identify

IDENTIFY THE COLOR PATTERN

What comes next?

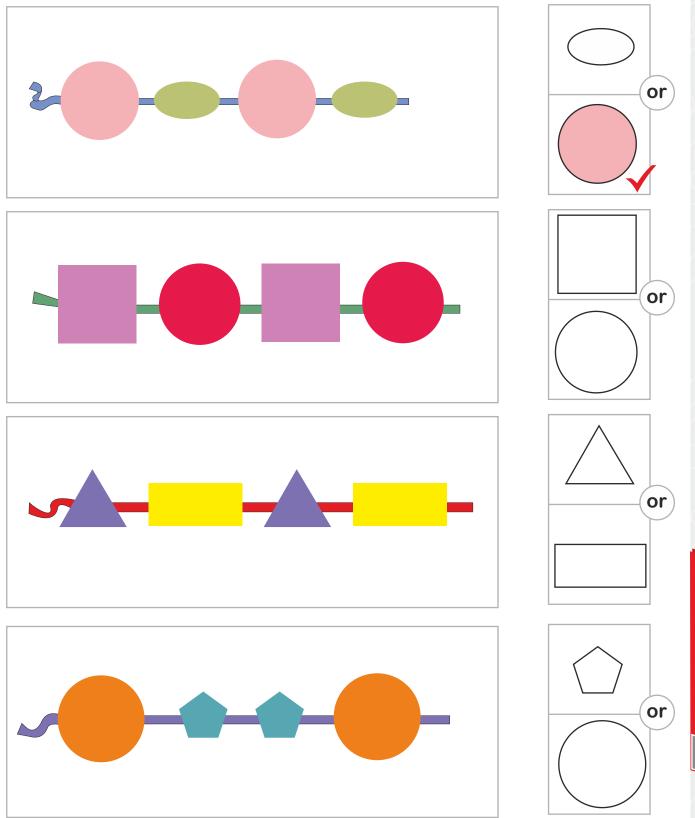
Tick (\checkmark) the correct color. One has been done for you.



IDENTIFY THE SHAPE PATTERN

What comes next?

Identify and color the shape that comes next. One has been done for you.

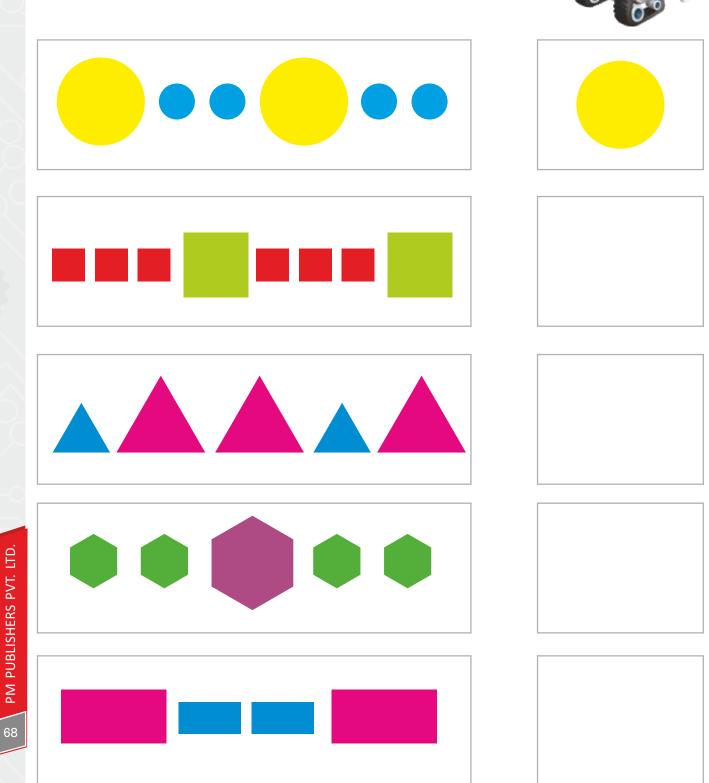


COMPUTER SCIENCE- FS 4

IDENTIFY THE SIZE PATTERN

What comes next?

Draw and color the shape and size that comes next. One has been done for you.



Decomposition

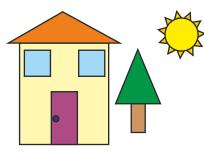
Decomposition means breaking up of a problem into smaller parts. Decomposition of a problem makes it easy to solve.

PROBLEM

P-RO-BL-EM

Children! You must have seen a picture made up of different shapes such as triangles, squares and circles. Let us understand how to draw the following using different shapes.

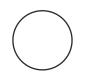
Here, we have a picture (house, sun and tree) which is made up of shapes only.



Let us decompose this picture into the shapes it is made up of.

The picture can be decomposed into the following shapes. Count and write the numbers of given shapes.









It is easy to draw the picture using these shapes. This is how decomposition helps us solve a problem.



Decomposition makes your work easy and simple.

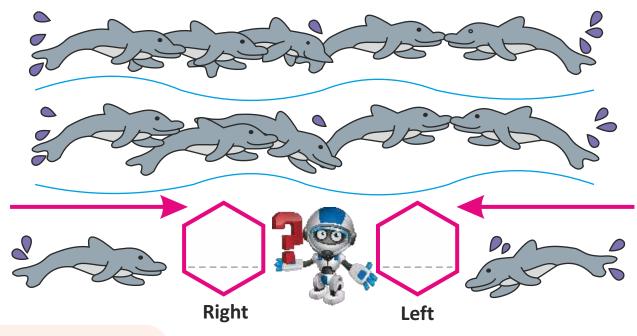
Activity Decomposition



HOW MANY?

Count and write how many fish are facing left and how many right.





Arranging

Placing a group of things at a proper place or in a particular order is called **arranging**.

Let us understand it with the following picture.

As you can see, everything is kept in a proper order. For example, all the shoes are put at the bottom-right corner and coats are hung on the left.





Arranging things makes it easy for us to locate them in future.



FRUITS IN THE BASKET

Match the fruits with the baskets of same color.



In a Nutshell

- Patterns are created when figures are arranged in a design.
- Design is repetition of patterns of colors, shapes and lines.
 - Decomposition of a problem makes it easy to solve.
 - Placing a group of things in a proper place or in a particular order is called arranging.
- COMPUTER SCIENCE- FS 4 / 🖓



A. Write 'T' for True and 'F' for False statements.

- 1. Patterns do not repeat over and over again.
- 2. Decomposition means breaking up of a problem into smaller parts.
- 3. Arranging things makes them look tidy.

E

B. Fill in the boxes.

Ρ

1.

are created when figures or

shapes are arranged in a design.

2. The repetition of patterns of colors, shapes and lines form a

N



3. Decomposition of a problem makes it easy to

SLE.

Т

Activity Section

Lab Activity

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Open the Educational Suite GCompris [🙆].

- 1. Click on Penguin icon [🔥].
- 2. Click on Logic [Logic ng].
- 3. Choose the Logical Associations [

PLAYING METHOD

Look at the two sequences. Each fruit in the first sequence has been replaced by another fruit in the second sequence. Complete the second sequence by using the correct fruit after studying the pattern.

Skill Formation

This pattern-based lab activity helps enhance the computational thinking in the students.

ARTIFICIAL INTELLIGENCE Let's Draw with AI

After completing this chapter, you will be able to:

- Learn about the terms 'Artificial' and 'Intelligence'.
- Understand about AI.
- Create drawing using AutoDraw.

Hi Kids! Today's computer has been transformed into a smart machine. It has become so advanced that it can copy human behaviour. This feature uses Artificial Intelligence. Let us understand about it.

Artificial

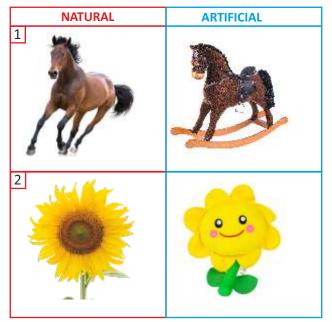
JBJECTIVES

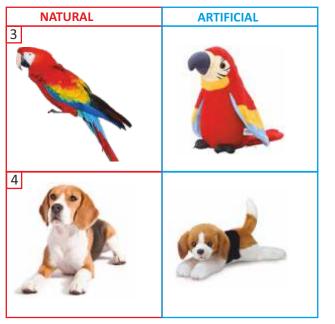
8

Artificial things are made or produced by human beings. These things are not found naturally.

In other words, artificial things are the **copy** of natural things.

DIFFERENCE BETWEEN NATURAL AND ARTIFICIAL THINGS





Ш

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Intelligence

Intelligence is the ability to think, learn from past experience and act according to a situation.

You become intelligent when you start doing correct things by yourself. Let us understand it with the help of an example.

As soon as you **touch** a **hot iron**, you will yank your hand away immediately. When this happens to you for the first time, the event and the result (the burning of your hand) gets stored in your brain. This is called an **experience**.



When you see a hot iron next time, your intelligence will decide not to touch it based on your past experience.

Artificial Intelligence (AI)

Artificial Intelligence is a way of making a computer, a robot or a machine think intelligently like humans.

Imagine a car without a driver that drops you to school, says, "Good bye" to you and comes back in the afternoon to pick you up from school.

Wouldn't that be great? All this can be made possible by the technology called **Artificial Intelligence (AI)**.



🛓 🔰 PM PUBLISHERS PVT. LTD.

Through Artificial Intelligence (AI), a computer can play, talk and do many other things.

Let us see how AI helps you in doing things faster and accurately.

AI Lab

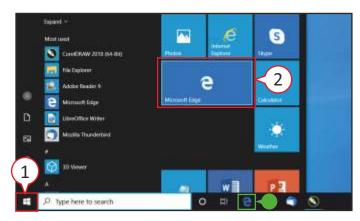
AUTODRAW

AutoDraw is a free online AI-based drawing program that transforms your rough drawing or sketch into meaningful images.

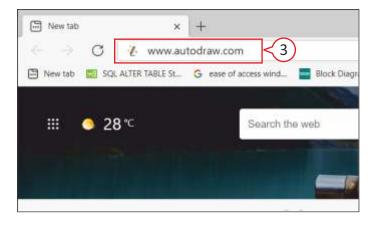


STARTING AUTODRAW

For using AutoDraw, you need a computer with Internet connection.



Microsoft Edge program appears.



- 1. Click on **Start** icon to open Start menu.
- 2. Click on Microsoft Edge.
- You can also open Microsoft
 Edge by clicking on its icon on the taskbar.
- Click on address bar and type www.autodraw.com
- **4**. Press **Enter** key from the keyboard.

AutoDraw Fast drawing for everyone. A.I. Experiment. 1.00 O D http://www.autobus.com -AutoDraw 6 0 7 + 18 3 (D. 95a) Autorea ---- 14604011 = + 8 œ 3 9.9.8.8 = ---- 74ER4111252800111 AutoDraw 0 0 T ø 9 0 Skill Formation

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A.I. Experiment page of AutoDraw appears.

5. Click on Start Drawing button.

AutoDraw screen appears.

- 6. Click on AutoDraw button.
- Draw any doodle, icon or shape with the mouse.

In this example, we have tried to make a duck.

- Now, AI observes your drawing and shows the small matching pictures on the top.
- 8. Click on the picture that you were trying to draw.
 - Selected picture appears.

Art Integration

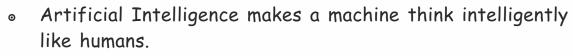
Students will learn to draw shapes and pictures from incomplete, raw sketches on the screen.

The ultimate goal of AutoDraw is to make your drawing skills better and show you how AI helps you in drawing quickly and accurately.

In a Nutshell

• Artificial things are the copy of natural things.

 Intelligence is the ability to think, learn from past experience and act according to a situation.



AutoDraw is an AI-based drawing program that changes rough drawings or sketches into meaningful images.



B.

A. Tick $[\checkmark]$ the correct answer.

1.	Artificial things are made by							
	a. nature b. humans c. robots							
2.	We become when we start doing correct things							
	on our own.							
	a. young 📄 b. old 📄 c. intelligent							
3.	Through							
	and do many other things.							
	a. Natural 📄 b. Simple 📄 c. Artificial 📄 🕞							
4.	AutoDraw program transforms our rough drawing or sketch 🥿							
	into meaningful							
	a. numbers b. images c. data e 'T' for True and 'F' for False statements. Artificial things are not found naturally.							
Write	e 'T' for True and 'F' for False statements.							
1.	Artificial things are not found naturally.							
2.	We become ignorant when we start doing correct							
	things by ourself.							
3.	AutoDraw is a free online program.							
4.	We do not need Internet connection to open AutoDraw.							

C. Fill in the boxes.

Ι

D.

1.	AT	F	C		L	things are made or			
	produced by human beings.								
2.	T	L	I	E		С	is the ability		
	to think, learn from experience and act accordingly.								
3.	AI makes a	M C		I	E	think	intelligently like		
	humans.				~				
4.	For starting A	utoDraw	, we n	eed a	com	puter w	vith		

Application-based Question

Т

Creative Thinking Skill

connection.

Rashmi is a teacher in a school. She needs to create coloring sheets for the students, but her drawing is not so good. Which AI program should she use to prepare the worksheets?

R

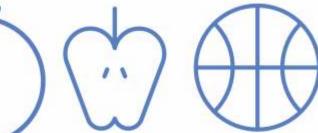
E



Activity Section

Lab Activity

- A. Give a demonstration of AutoDraw and familiarize the students with its different tools.
- B. Open AutoDraw and draw the following figures.



Skill Formation

This activity enhances the cognitive and fine motor skills of students.

Worksheet-II

Chapters 5 - 8

A. Tick $[\checkmark]$ the correct answer.

	1.	Data is a collection of words, numbers and images.							
		a. simple 🛛 b. organized 📄 c. unorganized 🔵							
	2.	tool is used to add special effects to the drawing.							
		a. Magic 🛛 b. Stamp 📄 c. Shapes 📄							
	3.	Arranging things makes them look							
		a. heavy 📄 b. tidy 📄 c. untidy 📄							
	4.	We become when we start doing things correctly.							
		a. artificial 📄 b. natural 📄 c. intelligent 📄							
	5.	is an AI-based drawing program.							
		a. Tux Paint 📃 b. AutoDraw 📃 c. MS Paint 📃							
Β.	Writ	e 'T' for True and 'F' for False statements.							
	1.	Computer has a larger memory than humans.							
	2.	Quit tool is used to close the program.							
	3.	Selector is used to view more patterns of current selected tool in Tux Paint.							
	4.	Natural things are the copy of artificial things.							
	5.	AI helps us in doing things faster and accurately.	COMPU						
С.	Fill i	in the boxes.							
	1.	Computer stores the work in its M M R.	SCIEN						
	2.	E A E tool is used to erase any part of a drawing.	TER SCIENCE- FS						
	3.	D S G is the repetition of colors, shapes and lines.	4						
	4.	A T D W is a free online drawing program.	79						

Additional Information (Do's and Don'ts)

Kids! Computer is a delicate machine. We should use it carefully. Let us learn some **do's** and **don'ts** while working on a computer.





1. Press the keys of the keyboard gently.





- 2. Clean the computer with a soft and dry cloth every day.
- **3**. Maintain the correct sitting posture while working on a computer.





4. Wait for your turn if you are sharing the computer.



- 1. Do not push the computer. It can disturb the cable connections.
- 2. Do not make the computer room dirty.





- 3. Do not eat or drink near the computer.
- Do not touch the wires and cables when the computer is ON.



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