

COMPUTER

1



With the blessings of :
Our Parents

Computer-1

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- National Education Policy 2020
- NCF 2022
- Activity Based Format
- Innovative Approach
- Learning with fun
- Eco-Friendly Paper

Preface

Computer

: Computers, a series of eight books, is a carefully arranged Computer series, that perfectly complies with the NCERT syllabus criteria and the National Curriculum Framework's vision. In accordance with NEP 2020's guidelines, the series adopts an interactive approach to make Learning about Computer enjoyable for students. This book includes enough questions in accordance with the NEP criteria. The fundamental principles of NEP which are recognising, identifying and fostering the unique capabilities of each student, respect for diversity, and respect for the local context in all topics, are always kept in mind while creating the book.

The topics are introduced in a way that children experience and learn through exploration.

Child-friendly language and contextual images have been incorporated throughout the series to make the material more understandable for young readers. This allows them to connect what they read and relate it to the views, ideas and experiences they encounter every day.

Salient Features of the series:

Learning Outcomes : It shows the right path of learning to the teachers as well as students. It establishes the direction of learning for efficient and superior learning results.

Warm Up : Children can connect their prior knowledge to the chapter's topic through simple yet engaging activities.

Teacher's note : An outline of guidelines for teachers to follow in the classroom in order to make lessons interactive and discussion-based.

Let me answer : **Questions** related to the topic which are essential for checking pupil understanding and keeping them engaged with the task at hand.

Do You know : An interesting piece of information related to the topic.

Remember It : Additional information about the topic to encourage children to wonder about various surroundings.

Kids' IQ : These questions have been included to reinforce learners to think, analyse and apply.

Up skill your Intelligence : Ample exercises with a range of questions to support learning.

Critical Thinking : Questions which allow the learners to think clearly and rationally. Further, permit the learners to understand the logical connections between ideas in order to analyse facts and come to a conclusion.

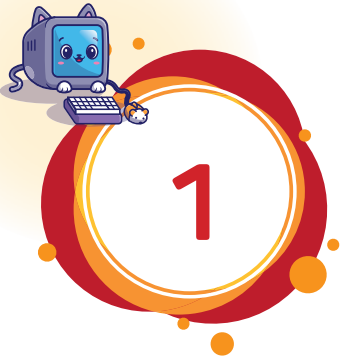
Team Work : It enables the students to collaborate with others.

The content is structured and well-graded. Sincere efforts have been taken to prevent any inconsistencies and make this series a perfect complement to the students' education. Any worthwhile recommendations for how to improve the series are always welcome and greatly appreciated.

Author

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Computer – A Smart Machine



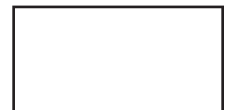
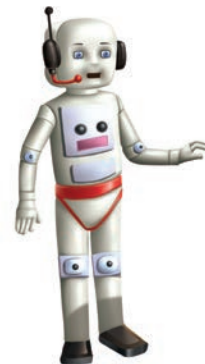
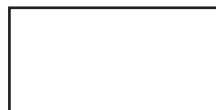
Learning Outcomes

At the end of this lesson, students will be able to :

- ◆ Recognise different types of machines.
- ◆ Comprehend the various uses of machines.
- ◆ Know about the different variety of computers.



Colour the box 'green' if the object is natural and 'red' if the object is man-made:



Teacher's Note

◆ Apprise the students about the difference between natural and man-made things.



Hi! I am Peter. Let's go on a journey of machines.



What is a Machine?

A machine is a man-made thing which helps us to :

perform our
task more
quickly

do different
types of
work

MACHINES



save our
time

make our
work easy

The following images demonstrate how machines assist us in performing our tasks more quickly :

Functioning without the use of machines



Ball with hands



Amrita is cooling
herself with a paper fan



Let me Answer

What does your mother use to chop the vegetables?

Functioning with the use of machines



Using microwave to
heat the food



Saumya is sewing clothes by
using a sewing machine

Machinery of Many Types

Now, let's learn about different varieties of machines.

- Electricity is used by some machines. They are described as **Electrical** or **Electronic machines**.



Air Conditioner



Refrigerator



Which of the above machines is used in summers only?

Ans.

- Some machines can be operated with our hands or feet. They are called as **Manual machines**.



Hand Juicer



A Rickshaw



Let me Answer

Name some more electronic machines.

- Some machines work with fuel, like petrol, diesel, etc.



Bike



Bus



Characteristics of a Computer

Here are some of the characteristics of a computer :

I never forget the instructions.

I never get exhausted.

I can store large amount of data.



I function very fast.

I make work simple and easy.

I can do multiple things at a time.



Now, let's learn about the different varieties of computers.



Varieties of Computers

Laptop

- A laptop is compact in size and light in weight.
- It can be kept and taken anywhere.
- It works on batteries.



Desktop

- A desktop is big in size and heavier than a laptop.
- It is difficult to carry.
- It needs electricity to work.



Tablet

- A tablet is smaller than a laptop.
- It can be held in the hand and has a touchscreen.



Do You Know?

The first modern computer was basically a giant calculator which could actually do 4 things : add, subtract, multiply and divide.

REMEMBER IT!



A mobile phone is also a type of computer.



Let's Recall

- Machines are created by humans.
- Our work is made easier by machines.
- Some machines work with fuel and electricity.
- A laptop and tablet can be taken anywhere easily.
- Desktop computer needs electricity to work.



Upskill Your Intelligence



A. Circle the pictures which are machines.



B. Tick (✓) the correct answer.

1. A saves our time.
☐ a. machine ☐ b. plant ☐ c. pencil
2. A fridge is an example of
☐ a. manual machine
☐ b. electronic machine
☐ c. fuel machine
3. A never forgets instructions.
☐ a. human ☐ b. dog ☐ c. computer
4. is difficult to carry.
☐ a. Laptop ☐ b. Desktop ☐ c. Tablet
5. Which of the following machine work with fuel?
☐ a. A rikshaw ☐ b. A fridge ☐ c. A car

C. Match the following.



Manual Machine



Fuel Machine



Electronic Machine

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

1. A machine makes our work difficult.
2. A laptop can be carried anywhere.
3. A computer gets exhausted easily.
4. A mobile is a type of computer.
5. A tablet is big in size.

☐
☐
☐
☐
☐

Critical Thinking

A. Who am I?

- I make work simple and easy. I can store large amount of data.

.....



- I have a touchscreen and you can carry me anywhere.

.....



- I work on electricity and cool down your room temperature.

.....



B. Unjumble the jumbled words and find it on the grid given below.

AIESMCHN —

LNUMAA —

RTCMUPOE —

PLAPOT —

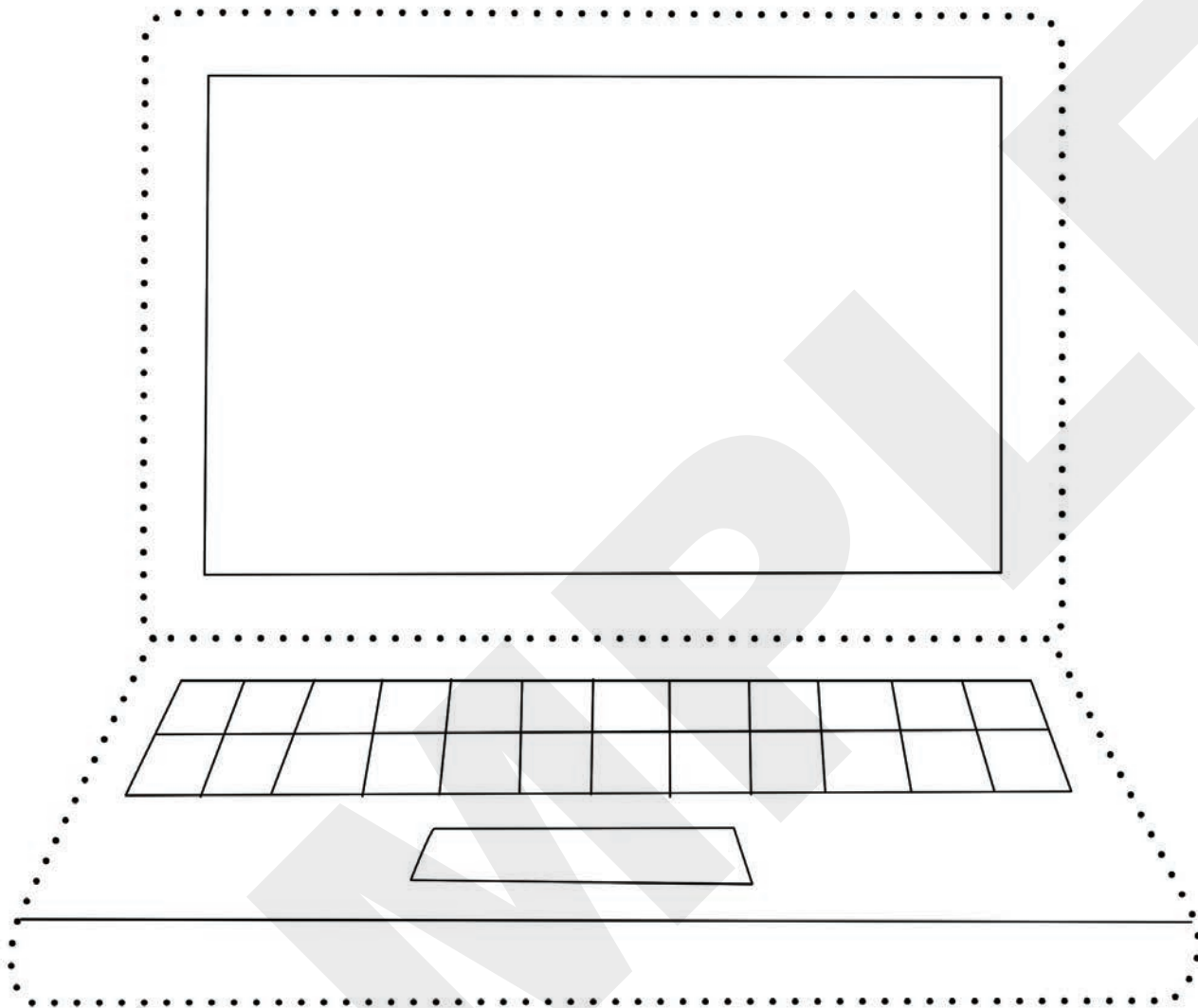
M	B	E	G	I	J	P	R	L
A	C	N	I	J	L	T	A	O
N	N	I	K	U	Q	P	B	T
U	Y	H	S	X	T	X	M	D
A	Z	C	B	O	T	L	R	T
L	V	A	P	O	S	W	S	O
C	O	M	P	U	T	E	R	E



Team Work

A. Collect and paste the pictures of any six machines. Write their names.

B. Join the dots to complete the picture and colour it.



C. Identify and label the following :



.....

.....

.....



Utilisation of a Computer



Learning Outcomes

At the end of this lesson, students will be able to :

- ◆ Comprehend how computers are used in all aspects of life.
- ◆ Discover how a computer works.
- ◆ Identify the use of computers to do a task more quickly.

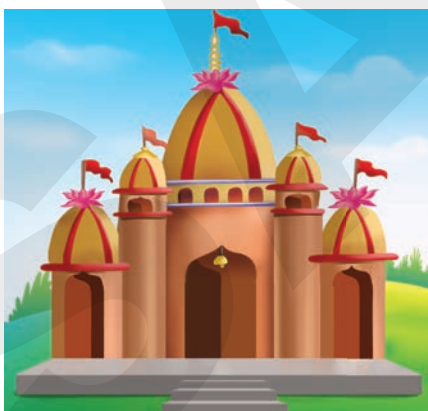


Match the pictures with the names given in the list:



School

Temple



Hospital

Shopping
Complex



**Teacher's
Note**

◆ Elucidate the students about what do we do in different places.

Hi! You have learned about various variety of machines that make our work easier in the previous chapter. Now, let's look at how computer can help us work more efficiently.



Machines assist us in doing a variety of activities. A computer is an electronic equipment which helps us to do variety of tasks. Let's have a look how computers assist us in our daily life.



Applications of a Computer at Home

We can perform a variety of tasks with the help of a computer or a laptop. We can get our task done swiftly with the help of a computer.



Let me Answer

Is computer an electronic machine?



Solve sums



Play games



Type letters



Attend online classes



Access internet



Listen to songs



Applications of a Computer in School

Computers are used commonly in schools. We use computers in school for the following purposes :



Children in a computer lab



Printing
Report Cards



Kids' IQ

Who will be able to complete the work faster; a teacher who is manually making a report card or a teacher who is typing it?

Ans.

Applications of a Computer in Office

We use computers in office for the following purposes :



Sending e-mails



Typing letters



Scheduling a meeting



Giving presentations

**Do You Know?**
The first mail was sent in 1971.

**Let me Answer**
For what purposes do we use computer in banks?

Applications of a Computer in Banks

We deposit our money at a bank. The following tasks are handled by a computer at the bank :



Track of a customer's
account information

REMEMBER IT! 
ATM- An automated teller machine



Withdrawing money

Other Locations

At Hospitals

Keeping track of the name of patients, addresses and phone numbers.



At Shops/Malls/Restaurants

Making bills and keeping track of things.

In a Library

Reserving information of books and students.



At Airport and Railway Stations

Make a list of the travelers names and phone numbers.

Let's Recall

- A computer is a piece electronic equipment that works faster.
- We use computer in schools for teaching, printing report cards and in computer labs.
- At a bank, we use computers to keep track of customer's account information.
- Computers are used in libraries for reserving information of books and students.



Upskill Your Intelligence



A. Tick (✓) the correct answer.

1. assist us in doing a variety of activities.
☐ a. Shop ☐ b. Food
☐ c. Machines ☐ d. Library
2. A computer at home is used for
☐ a. Attending online classes
☐ b. Keeping records of patients
☐ c. Tracking traveller's information
☐ d. Reserving records of books and students
3. Computers are used in many
☐ a. Food ☐ b. Locations
☐ c. Roads ☐ d. Tables
4. A computer is used in for scheduling a meeting.
☐ a. Library ☐ b. Banks
☐ c. Office ☐ d. Shops
5. A computer is an equipment.
☐ a. Manual ☐ b. Electronic
☐ c. Handy ☐ d. Light

B. Fill in the blanks.

Games Letters Customer's Songs Daily

1. We can print on a computer.
2. can be played on a computer.
3. We can listen to on a computer.

4. Computers assist us in our life.
5. At a bank, we use computers to track account information.

C. From the following tasks, tick the ones which a computer can do.



1. Make food ☐



2. Run ☐



3. Calculate ☐



4. Play songs ☐



5. Wash clothes ☐



6. Type letters ☐

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

1. You can't listen songs on a computer. ☐
2. You can type letters on a computer. ☐
3. Computers are used to cook food. ☐
4. We can perform multiple tasks with the computer. ☐
5. A computer is a piece of electronic equipment. ☐

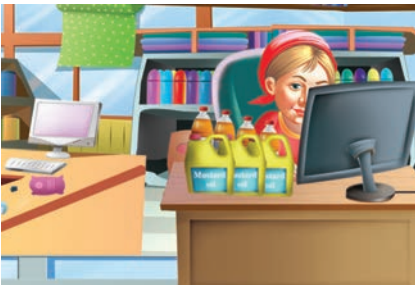


Critical Thinking

A. Look at the pictures and write down the activity being done.



.....



.....



.....



.....

B. Give one word answers:

1. A place where you use computers to watch movies.
2. What do we solve with the help of a computer?
3. A place where computer stores names and phone numbers of all the patients.
4. What does a teacher use to take an online class?
5. A place where a computer is used for making customer's bill.



Team Work

A. In the space provided below, paste photographs of everyday things you can accomplish with a computer.



B. List the locations in your school where computers are used.

.....

.....

.....

.....

.....

.....





3

Components of a Computer



Learning Outcomes

At the end of this lesson, students will be able to :

- ◆ Know the various components of a computer.
- ◆ Recognise the functions of various computer components.
- ◆ Identify the parts of a computer that work.



Name the body parts of a dog:



Paw

Eyes

Whiskers

Ear

Tail



Teacher's Note

◆ Apprise the students that different body parts are used for different purposes.



Hello friends! In the last chapter, we learned about the different applications of computers in our daily lives. Now let's look at the various components of a computer.

We are all aware that the human body is made up of several parts. Each part has a job to do. For instance, we speak using our tongue, see using our eyes, shake hands using our hands. Similarly, the computer also has different parts. Each part does its own work. For the computer to function effectively, all of the components are required.



Let me Answer

How many components of a computer are there?



The components of a computer enable it to perform various tasks such as listening to music, watching movies, playing video games, printing documents, etc.

So, let's have a look at the key components of the computer.



Monitor

- A Monitor has the appearance of a television.
- We can see what we type on the monitor.
- A monitor is also called VDU (Visual Display Unit).



Do You Know?

Christopher Latham Sholes was an American who invented the Qwerty Keyboard.



Keyboard

- We use keyboard to type letters and numbers.
- It has many buttons on it which are called keys.



- We can type any letter or number by pressing the keys on the keyboard.
- A keyboard can be wired or wireless and used with any computer .



Mouse

- This is a computer mouse and is different from the house-mouse.
- It has two buttons and a scroll wheel. This wheel is in the centre.
- It is used to point at things and also used to draw pictures on the monitor.



REMEMBER IT!



The computer mouse was invented in 1963.

- We can use a wired or a wireless mouse with any computer.



CPU

- CPU stands for **Central Processing Unit**.
- It is called the brain of the computer.
- It controls all the parts of a computer.
- The CPU is placed inside a box called the CPU box.



Printer

- A printer is used to print text and pictures on a paper. The printed work is called printout.
- It is fixed to the CPU box with a wire.
- A wireless printer can also be used.



Let me Answer

Which part of a computer controls all the parts of a computer?



Speaker

- Speakers are used to listen to sounds and music.
- It can be wired or wireless.



Kids' IQ

Make distinctions between the two mice depicted in the illustrations below.



Ans. 1
2

Pen Drive

- A pen drive is also called as Flash Drive.
- We can store data in it.
- It is also used to transfer files between devices.
- It is easy to carry.



Let's Recall

- The monitor is also called VDU (Visual Display Unit).
- The keyboard has keys which help to type letters or numbers.
- A mouse helps to click, drag and draw objects.
- A CPU is called the brain of a computer.
- A printer is used to print text, pictures and documents.
- A speaker is used to listen to sounds and music.



Upskill Your Intelligence



A. Tick (✓) the correct answer.

1. A monitor looks like a
☐ a. Pen ☐ b. Plant
☐ c. Pencil ☐ d. Television
2. VDU stand for
☐ a. Visual Display Union ☐ b. Visual Designing Unit
☐ c. Virtual Display Unit ☐ d. Visual Display Unit
3. Which of the following is called the Brain of the computer?
☐ a. Printer ☐ b. CPU
☐ c. Mouse ☐ d. Keyboard
4. Scroll wheel of the mouse is located in the
☐ a. centre ☐ b. left
☐ c. right ☐ d. below
5. A is used to listen to sounds and music.
☐ a. Printer ☐ b. Monitor
☐ c. Mouse ☐ d. Speaker

B. Fill in the blanks.

type mouse different flash keys

1. The computer has parts.
2. We can see what we on the monitor.
3. Keyboard has many buttons which are called as
4. is used to point at things.
5. A pen drive is also called a drive.

C. Match the parts of the computer with the given pictures.

1. CPU

(a)



2. Printer

(b)



3. Speaker

(c)



4. Mouse

(d)



5. Monitor

(e)



6. Keyboard

(f)



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

1. A printer is used to store files.
2. A mouse is used to click, drag and draw.
3. A monitor is called a VDU.
4. CPU stands for Control Processing Unit.
5. A keyboard can be wired or wireless.

☐

☐

☐

☐

☐



Critical Thinking

A. Find out the parts of a computer hidden in the grid given below. Take help of the hints mentioned.

O	P	E	N	D	R	I	V	E
P	R	O	T	I	N	O	M	P
L	I	Z	O	M	I	A	O	R
S	N	X	U	J	L	N	U	I
M	T	C	S	N	D	R	S	E
Y	O	N	E	B	S	Y	E	K
Z	U	A	Q	W	F	C	X	D
H	T	S	T	V	J	A	Y	A

Hints:

1. It is used to point at things.
2. We can store data in it.
3. The buttons on keyboard.
4. Printed work on a paper.
5. This looks like a television.

B. Who am I?

- I am also called as Flash drive.

.....



- I help you to type.

.....



- I control all the parts of a computer.

.....



- I let you hear the sounds.

.....



- My name is same as an animal but can't make any sound. You can move me all around and I follow your commands.

.....

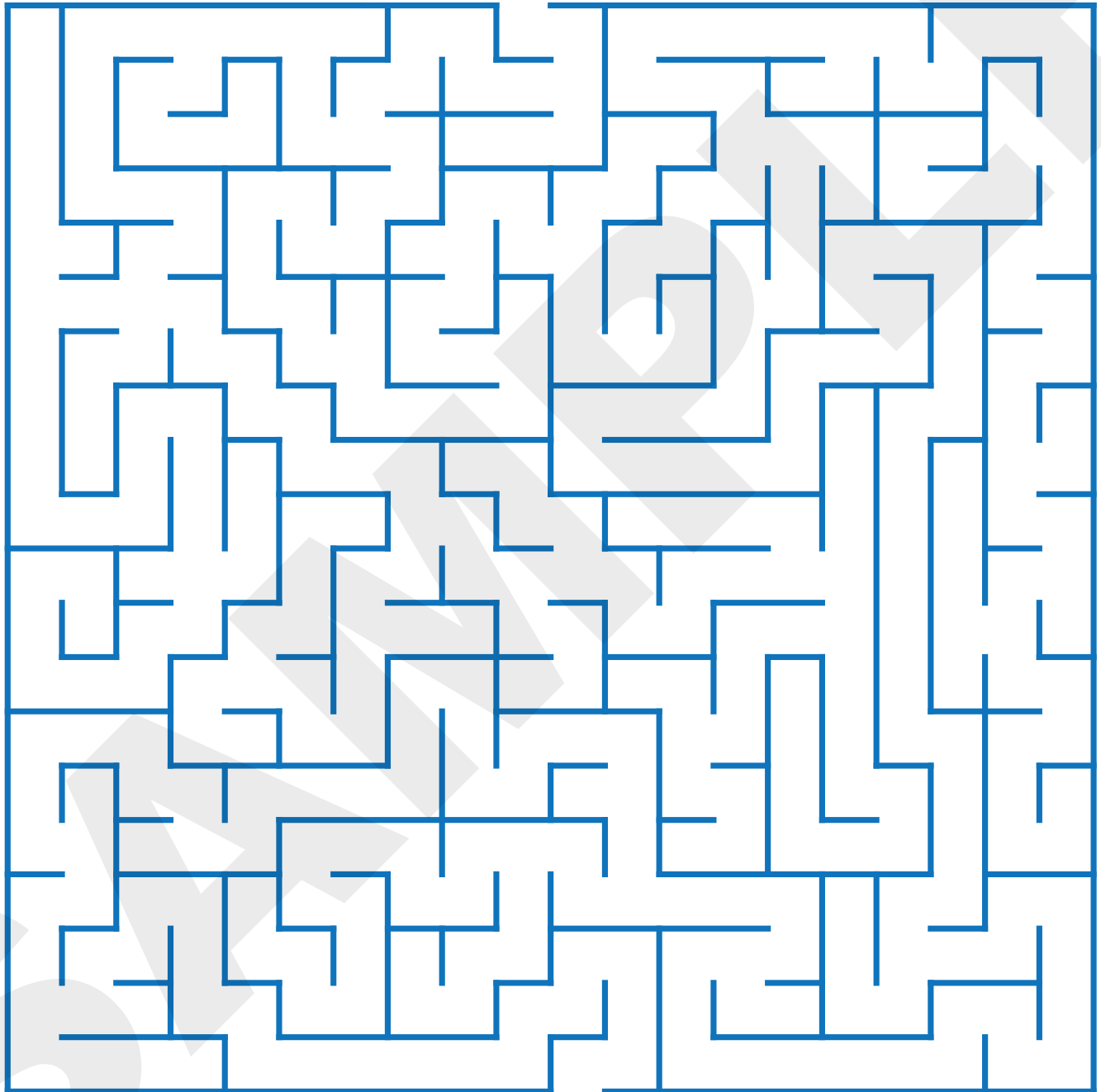


Team Work

A. Count the number of monitors, CPUs, mouse, keyboards and printers in your school computer lab. Mention the number in the boxes given below.

1. Number of Monitors
2. Number of Mouse
3. Number of Printers
4. Number of CPUs
5. Number of Keyboards

B. Your partner will give you the instructions. Follow the instructions and take the monitor to the keyboard. Use a pencil.





Significance of Keys On a Keyboard



Learning Outcomes

At the end of this lesson, students will be able to:

- ◆ Recognise the various types of keys on a keyboard.
- ◆ Learn how to use the different keys on a keyboard.
- ◆ Use the keyboard to enter different types of data.



Create as many words as you can with the letters given above picture.

.....

.....

.....

.....

.....

.....



Teacher's Note

Ask the students to read the alphabet on the keyboard.



Hello friends! In the previous chapter, we learned about the keyboard. Now look at the many types of keys on a keyboard and learn their functions.



Keyboard

As you need a pencil to write in a notebook, in the same way, a keyboard is needed to write on the computer. It is used to type letters and numbers.

- A keyboard has several small buttons which are called keys.
- A normal keyboard has 104 keys.
- Words, sentences and numbers are typed with these keys. The monitor displays what we type.



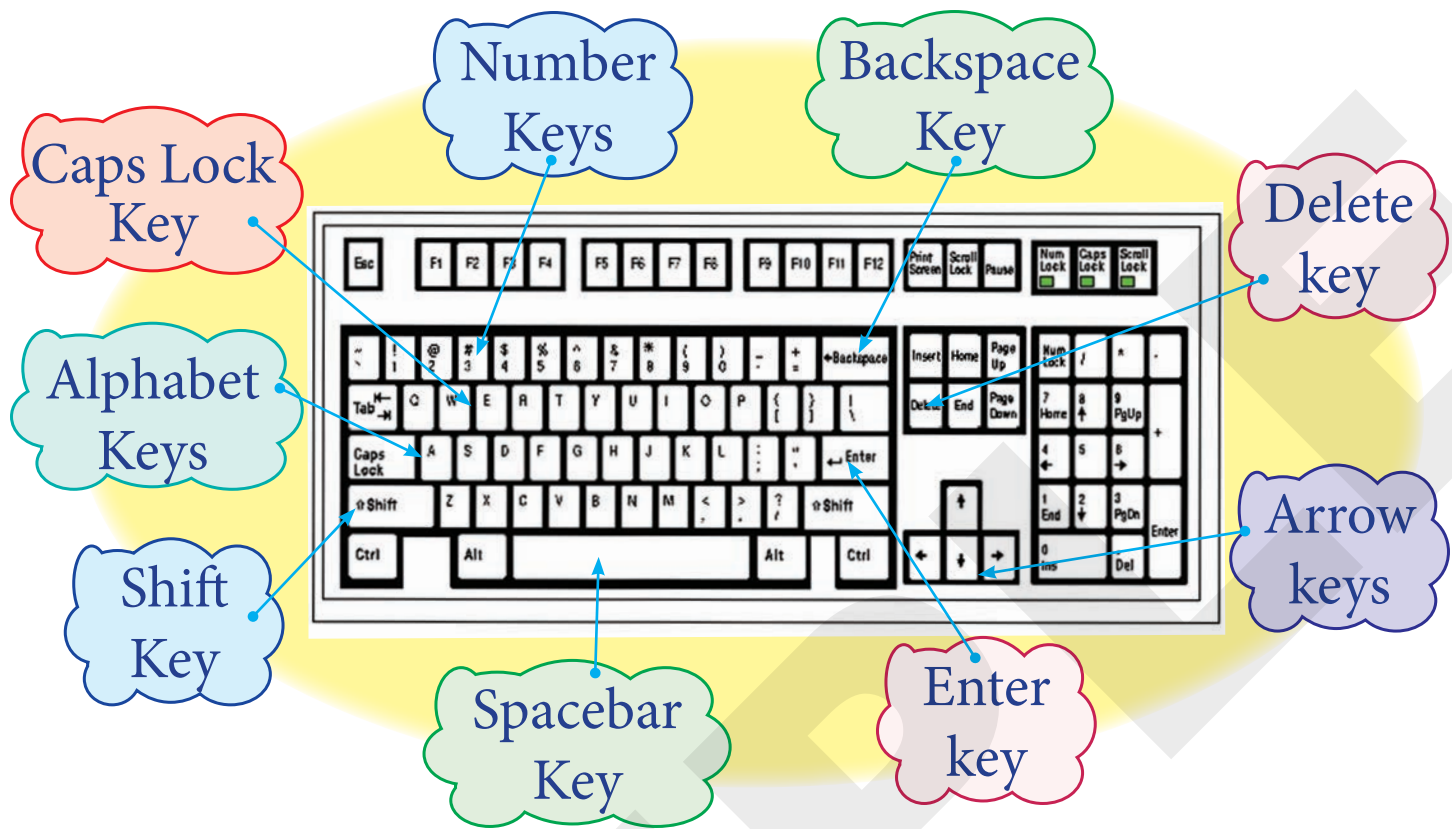
Let me Answer

What do we type with the keys on a keyboard?



Keys of Various Kinds

There are various types of keys on every keyboard. Let's take a look at each of these keys one by one.



Alphabet Keys

- The alphabet keys have alphabet from A to Z labelled on them.
- There are 26 alphabet keys on a keyboard.



- They are used to type words and sentences.

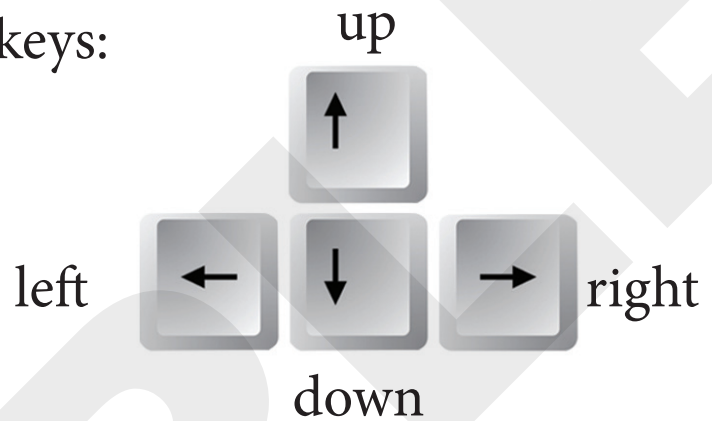
Number Keys

- The number keys have numbers from 0-9 labelled on them. They are called Numeric keys.



Arrow Keys

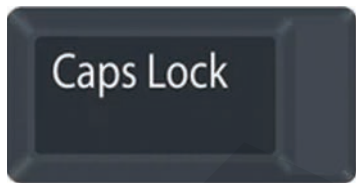
- The functions of arrow keys are to move the cursor in different directions. These keys are called Cursor control keys.
- A keyboard has four arrow keys:
 - Up arrow key
 - Down arrow key
 - Left arrow key
 - Right arrow key



Special Keys

The keyboard has some special keys. Let's learn about some of them.

Caps Lock Key



To type capital characters, we use the Caps Lock key. The caps lock light will turn on when you press the caps lock key once. To turn it off, press it again.



Do You Know?

On your keyboard, the longest word that you can type using only the top row is typewriter.



Let me Answer

Which key's light turns on when we press it?

Spacebar Key

The spacebar key is the longest key on the keyboard. It is used to give space between words.



Backspace Key

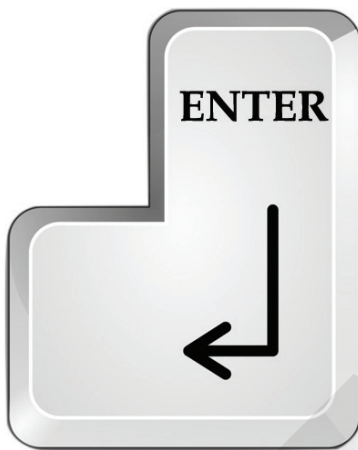
This key helps to erase the characters. Use arrow keys to bring the cursor towards the right side of the wrongly typed character and then press this key to erase the mistake.



REMEMBER IT!



A standard keyboard is called a QWERTY keyboard.



Enter Key

The keyboard has two enter keys which are used to move the cursor to the next line.



Kids' IQ

Look at the top line of alphabet keys and write as many words as you can.

Ans.



Let's Recall

- A normal keyboard has 104 keys.
- Arrow keys are also called Cursor control keys.
- The backspace key erases mistakes.
- Cursor shows where you can start typing.
- The spacebar key is used to type capital letters



Upskill Your Intelligence



A. Fill in the blanks.

1. key helps us to type capital letters.
2. A normal keyboard has keys.
3. There are alphabet keys on a keyboard.
4. The longest key on the keyboard is called
5. key works like an eraser.

B. Match the following.

A

1. Enter key
2. Alphabet keys
3. Number of keys on a Keyboard

B

26
Two
104

C. Tick (✓) the correct answers.

1. The keys with numbers written on them are called keys.
☐ a. Enter ☐ b. Numeric ☐ c. Spacebar
2. A keyboard has arrows keys.
☐ a. 5 ☐ b. 6 ☐ c. 4
3. key is used to give space between words.
☐ a. Spacebar ☐ b. Delete ☐ c. Enter
4. Buttons on the keyboard are called as
☐ a. Accessories ☐ b. Words ☐ c. Keys
5. To move the cursor to the next line, you can use the key.
☐ a. Arrow ☐ b. Enter ☐ c. Numeric

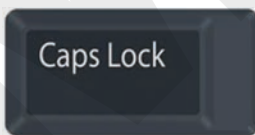
D. Write 'T' for True statements and 'F' for False statements.

1. The Enter key is used to write numbers. ☐
2. The delete key erases one character to the right of the cursor. ☐
3. There are two delete keys. ☐
4. The monitor doesn't display anything. ☐
5. The functions of arrow keys are to move the cursor in different directions. ☐



Critical Thinking

A. Circle the odd one out.

-    
-    
-    
-    

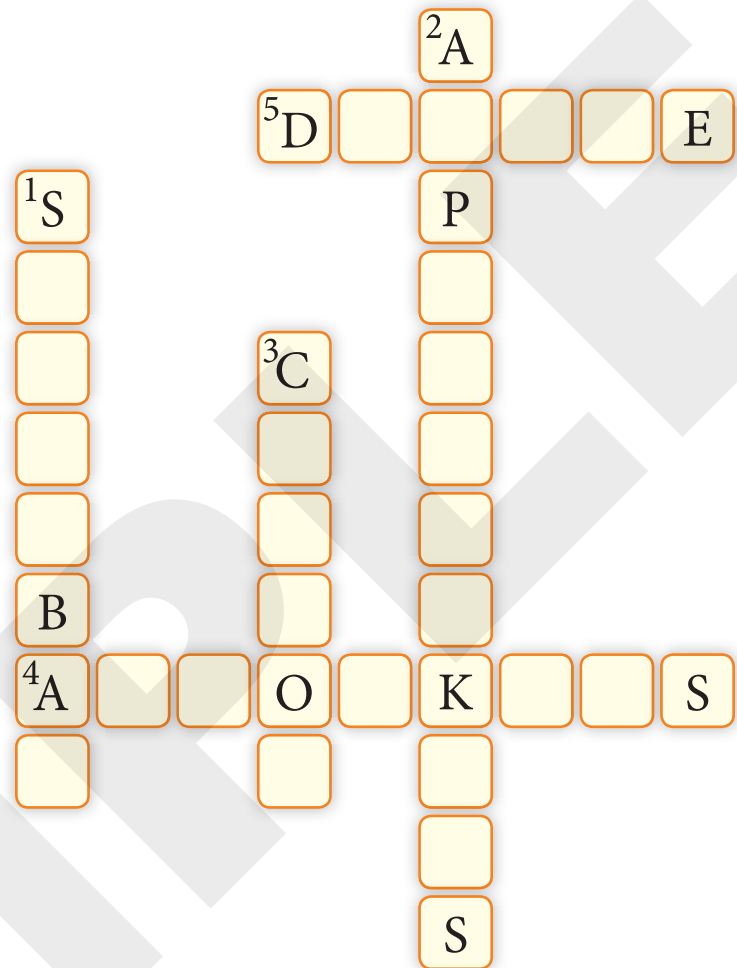
B. Solve this crossword with the help of given hints.

Down

1. I am the longest key in the keyboard.
2. You use these keys to type 'computer', 'hi', etc.
3. Arrow keys help to move me in different directions.

Across

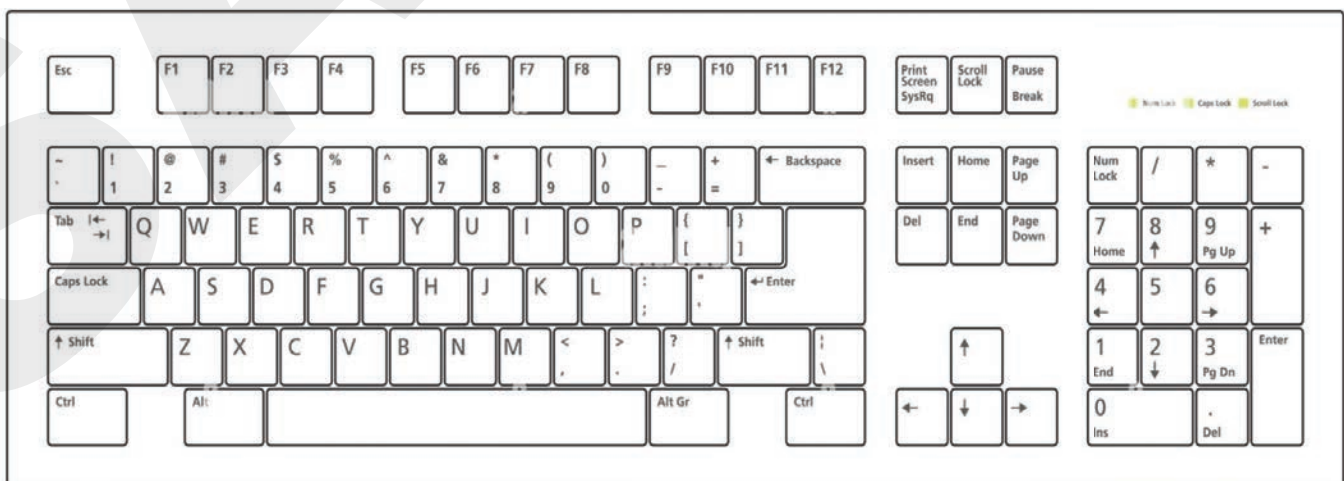
4. We are four together.
5. If you want to delete any character, you press me.



Team Work

A. Colour the keys.

1. Alphabet Keys - Yellow
2. Caps Lock Key - Blue
3. Number Keys - Red
4. Space Bar Key - Green





Operating a Mouse



Learning Outcomes

At the end of this lesson, students will be able to:

- ◆ Understand the various characteristics of a computer mouse.
- ◆ Recognise the different parts of a mouse.
- ◆ Know the functions of mouse buttons .



The mouse wants to nibble the old newspapers, help it find the way .



Teacher's Note

- ◆ Apprise the students that there's a lot of difference between a computer mouse and a real mouse.



Hello friends! Let's learn about the important component of the computer which is a mouse.



Computer Mouse

The computer mouse is used to drag, draw pictures and select things on the monitor. It is attached to the CPU box with a wire.



Yes, you read that correctly. It is referred to as a mouse since it resembles an actual mouse.



The computer mouse has the following qualities:

- It is a small input device.
- It has buttons on it and a wheel in the centre.

Mouse Buttons

The computer mouse is used to drag, draw pictures and select things on the monitor. It is attached to the CPU box with a wire.



Let me Answer

Are a computer mouse and a real mouse the same?





Various Parts of a Mouse

A computer mouse has two buttons and a scroll wheel. It is kept on a mouse pad and moves properly on it only.



Do You Know?

The computer mouse was invented by Douglas Engelbart and Bill English.



Right button

Scroll wheel

Left button



You should never keep the mouse upside down on the mouse pad.

REMEMBER IT!



The cursor is the pointer on the screen which the person using the computer can move using the computer mouse.



Types of Mouse

There are various kinds of computer mouse:

- **Wired Mouse:** The mouse which is attached to the CPU box with a wire.
- **Wireless Mouse:** The mouse which doesn't have a wire and works on batteries.



Actions of a Mouse

You can use the mouse in different ways:

Click: It means to press and leave the mouse button quickly. You can click the mouse in three ways:

Left click: It selects an object present on the monitor.

Right click: It opens a shortcut menu.

Double click: It is used to select and open a program.

Drag: It means to press the left button and move the mouse while keeping the left button pressed.



Kids' IQ

Does a tablet have a mouse attached to it?

Ans.



Let's Recall

- The mouse is used to drag, draw and select things on a monitor.
- A mouse can be wired or wireless.
- Double click opens a program.
- Left click selects an object present on the monitor.
- A computer mouse has two buttons and a scroll wheel.



Upskill Your Intelligence



A. Tick (✓) the correct answers.

1. A mouse has a in the centre.
☐ a. Button ☐ b. Wire ☐ c. Wheel
2. click open a shortcut menu.
☐ a. Double ☐ b. Right ☐ c. Single
3. A mouse has buttons.
☐ a. Two ☐ b. Three ☐ c. Four
4. A wireless mouse a wire.
☐ a. has ☐ b. doesn't have ☐ c. both (a) and (b)
5. A mouse is used to
☐ a. Type letters ☐ b. Draw pictures ☐ c. Type numbers

B. Answer in one word.

1. The white arrow which moves on the monitor.
2. A small input device of a computer.
3. A mouse that works on batteries.
4. The thing on which the mouse is to be kept.

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

1. A computer mouse has all the qualities of a mouse. ☐
2. A computer mouse has four buttons. ☐
3. A mouse moves on a mouse pad. ☐
4. A mouse can be wired or wireless. ☐
5. You can play games using a mouse. ☐

D. Match the following :

I

Mouse

Mouse actions

Pointer

Scroll

II

Arrow

Page Up

Draw

Click



Critical Thinking

A. Who am I?

1. I have two buttons and a wheel.
2. I am the small wheel on the mouse.

B. Unscramble the words :

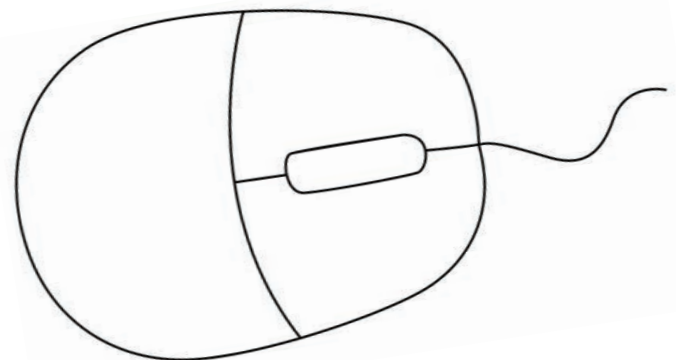
1. P T I N U -
2. E U M S O -
3. R O C S U R -
4. B D L U E O -



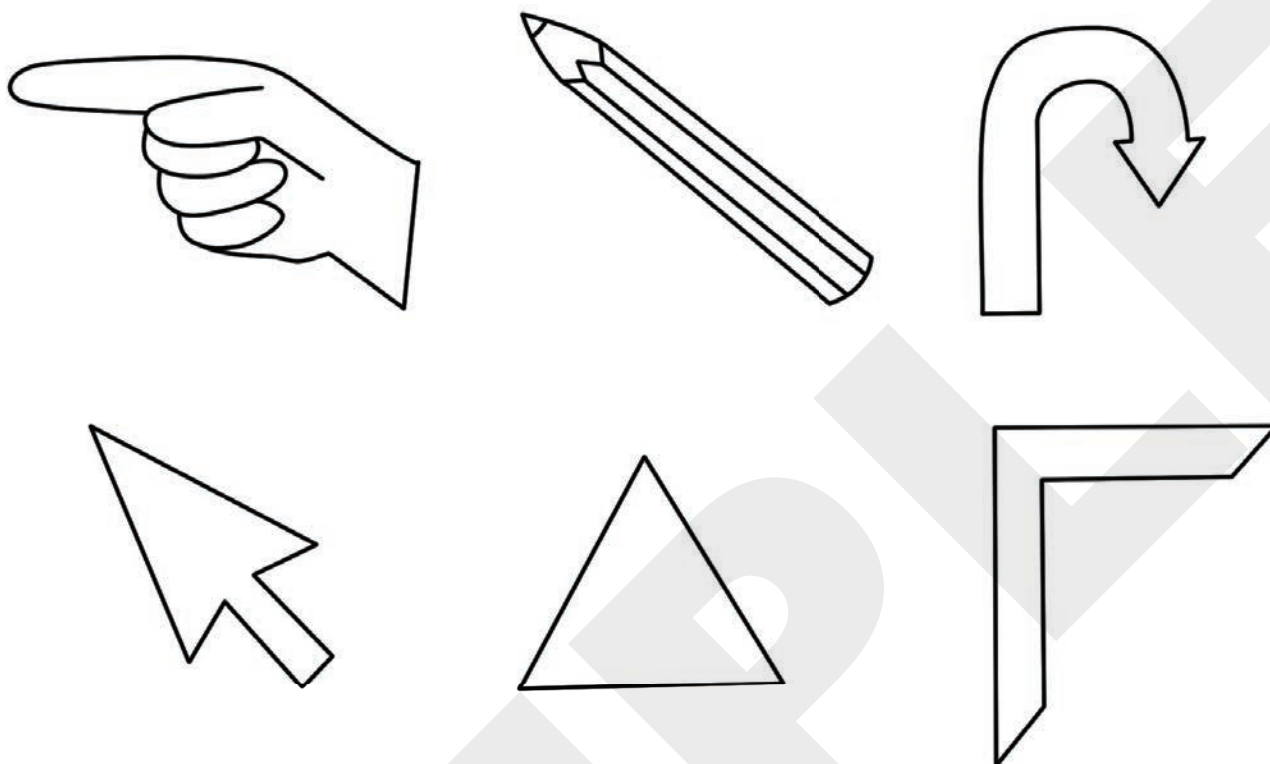
Team Work

A. Use crayons to fill the colour and name the buttons in the given picture.

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B. Find out the mouse pointer from the pictures and colour it.



C. Collect the information of the following :



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6

Computer Lab Etiquettes



Learning Outcomes

At the end of this lesson, students will be able to:

- ◆ Know the protocols to be followed in a computer lab.
- ◆ Learn what they should do in a computer lab.



Connect the pictures to the correct word.



Good
manners



Bad
manners



Teacher's Note

- ◆ Elucidate the students about good and bad manners. Further, tell them to always follow the good behaviour everytime.



Hello friends! We have so far learned how to operate a computer. It's time to learn how to maintain your computer lab.

A computer is a smart man-made machine. It can help us to do many things like play games, draw pictures, solve sums, listen to music and do many more things.

We must abide by the rules at school when using the computer lab.

Let's see what we should do and what we shouldn't do in a computer lab.

Do's (✓)

- Remove your shoes before you enter the computer lab.
- Always wait in line to enter the computer lab.



- The computer lab is not a place to run.
- Touch the computer with clean hands only.
- Talk gently.
- Always listen to your teacher.

- Press the keys of the keyboard very gently.
- Keep your back straight while sitting. Ensure that your eyes are at the right distance from the computer screen.



REMEMBER IT!

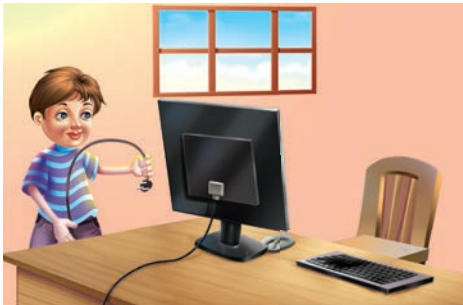


Always save your work.



Don'ts (x)

- Do not throw litter in the computer lab.
- Never touch the bare wires.
- Do not eat or drink anything in the computer lab.
- If there's a problem with your computer, take help from your teacher.
- Do not shout.



Kids' IQ



Raman



Vinita

In the above pictures Raman and Vinita, who do you think is sitting correctly?

Ans.



Let's Recall

- Remove your shoes before you enter the computer lab.
- Never touch the bare wires.
- Do not eat or drink in the lab.
- Press the keys on a keyboard gently.
- Always follow what your teacher tells you.

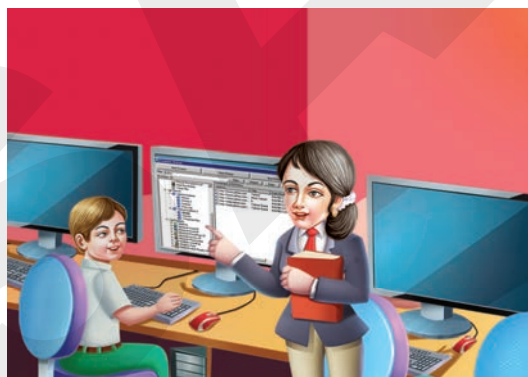


Upskill Your Intelligence



A. What are the protocols to be followed in a computer lab?

Colour the box green  for Do's and colour the box red  for Don'ts.



B. Answer the following in Yes/No.

1. A computer is a smart machine.
2. We should talk loudly in a computer lab.
3. A computer lab is a place where we can run.
4. We should always take the teacher's help in case there's any problem in the computer.

C. Write 'T' for True statements and 'F' for false statements.

1. We must listen to the teacher in the computer lab. ☐
2. We should throw litter in the computer lab. ☐
3. A computer lets us listen to songs. ☐
4. We should maintain proper distance between our eyes and the computer screen. ☐
5. Press the keys on a keyboard gently. ☐

D. Write four things you do in your school's computer lab.



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Critical Thinking

A. Arrange the given words and find it in the given grid.

IRWES —

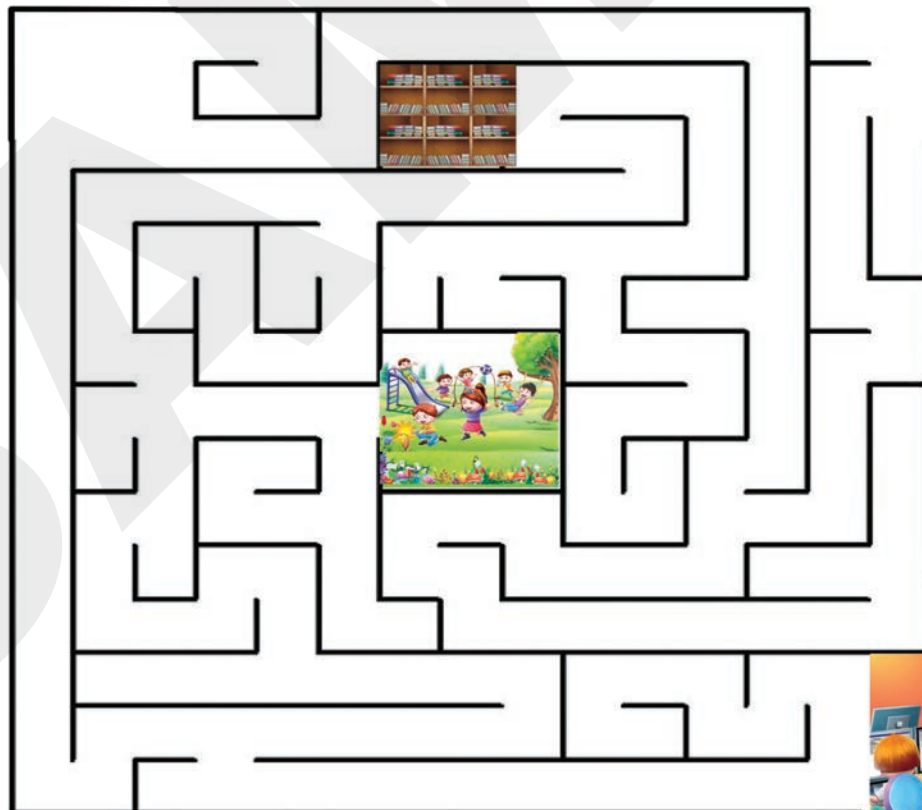
MORUPECT —

YSKE —

BLA —

X	K	E	Y	S	T	Q	P
Y	C	N	O	L	A	B	T
A	Z	W	I	R	E	S	S
C	O	M	P	U	T	E	R

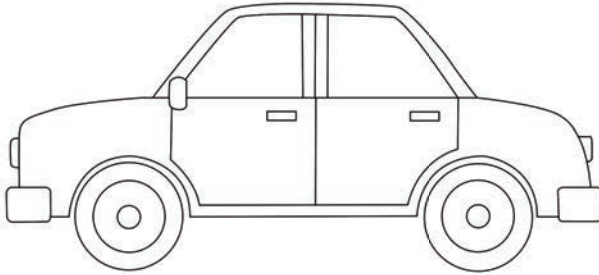
B. Sam is having his computer period. He wants to reach the computer lab. Help him reach the lab so that he can attend his computer's period.



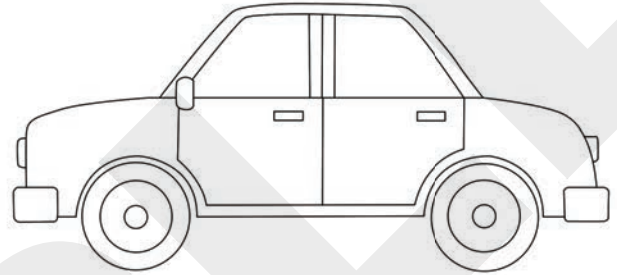


Team Work

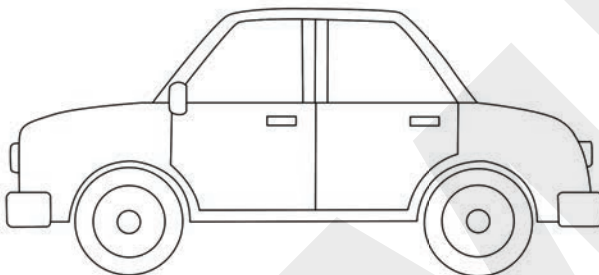
A. Colour the cars which show the rules to be followed in the computer lab.



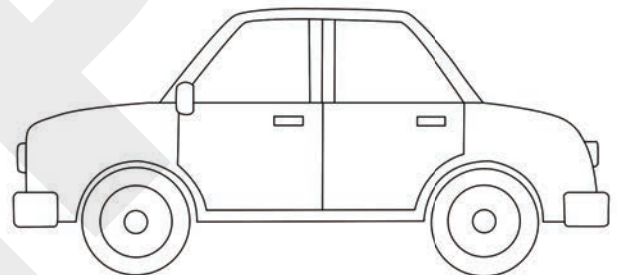
Maintain silence



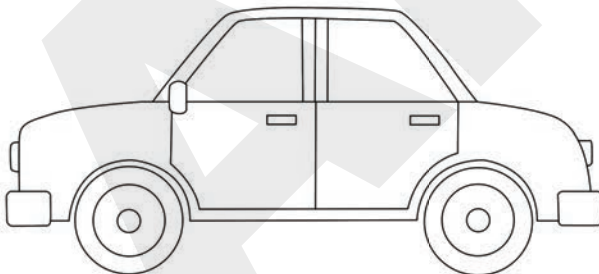
Play



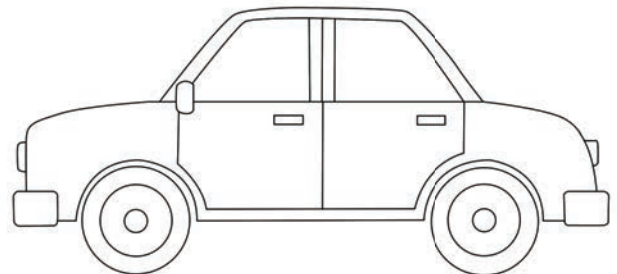
Maintain distance
from a computer



Remove shoes before
entering



Touch the bare wires



Do not listen to the
teacher

B. On a notepad, make the list of the rules to be followed in the computer lab. Ask your teacher to help you in saving the file.



Storage Devices



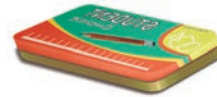
Learning Outcomes

At the end of this lesson, students will be able to:

- ◆ Know about data and how a computer gets it.
- ◆ About different storage devices.



Match the following objects to the pictures where they can be stored.



Teacher's Note

- ◆ Apprise students that storage is space or a place for putting things for future use or for safekeeping.



Hello friends! We learned about the computer lab etiquettes in the previous chapter. Now, let's get on the journey of learning about storage devices.



What is Data?

Data refers to all the names, images, numbers and even sounds. The teacher marks your attendance in her register. This is also data.



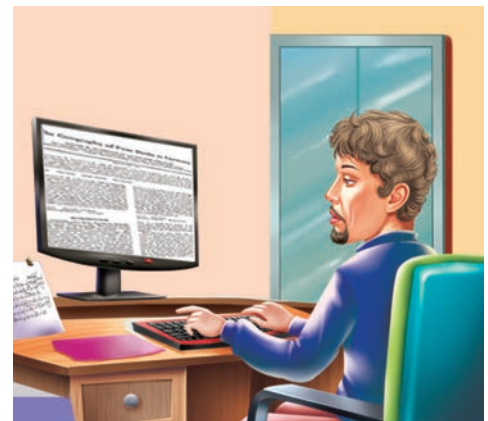
The grades and marks that you get for your test are also data. Your school has many record books of parents' information - that is also a data.



How is data obtained by a computer?

Only after receiving the data from you, the computer performs various tasks such as:

- when you type using the keyboard.
- when you use the mouse to click on something on the screen to select it.



For example, you want the computer to type the letter. You must type the alphabet from the keyboard. Only then the computer will type it.



Where do you keep your belongings?

We require a location to keep or store the information or objects.



Let me Answer

How does a computer get data?

The important papers are kept in folders.



Folders are kept in a cabinet.



Vegetables, fruits, curd, milk and many other things are stored in a refrigerator.



The books are kept in the library in cupboards.



You keep your toys in a cupboard.





Where do computers keep their data?

How do you remember things?

It's because of your memory!

The computer also remembers everything because it has different storage devices where computer data is stored.



Let me Answer

Where do you keep your school bag?



Storage Devices.

A storage device is an integral part of the computer hardware which stores information or data to process the result. Without a storage device, a computer would not be able to run.

Hard Disk

- The data inside the computer is stored in a Hard Disk.
- The hard disk is kept inside the CPU Box.



Do You Know?

The first computer used punched cards to store data!

Pen Drive



- Data can be stored in Pen drives.
- These can be easily carried anywhere.

Data Card

- Data cards can be used to store data.
- These are used in mobile phones, laptops, cameras, etc.



REMEMBER IT!



A computer's memory storage unit is known as a "byte."



Kids' IQ

If you would have to remember the series of the following objects. How would you do it?

Car Bird Human Books Computer Water bottle Bag Pencil Teacher

Ans.
.....



Let's Recall

- Data refers to all the names , images, numbers and even sounds.
- A storage device is a device used to store data or information.
- Data is stored inside the computer in a hard disk.
- Pen Drive is a small storage device and can be taken anywhere.
- The hard disk is kept inside the CPU Box.



Upskill Your Intelligence



A. Fill in the blanks.

1. can be taken anywhere.
2. Your mother stores the food in
3. Without a, a computer would not be able to run.
4. A storage device is a device used to store or
5. The data inside the computer is stored in a

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

1. Only names form data. ☐
2. Data cards are used in the refrigerators. ☐
3. Clothes are kept in the refrigerator. ☐

4. Data stored in pen drive can be carried to another place. ☐
5. You cannot store data in a hard disk. ☐

C. Match the following :

1. These are used in mobile phones, laptops, cameras, etc.
2. The data is stored inside the computer here.
3. It can be taken easily anywhere.



D. Tick (✓) the correct answers.

1. Data can be words or
☐ a. Files ☐ b. Folders ☐ c. Pictures
2. You keep your toys in the
☐ a. Refrigerator ☐ b. Cupboard ☐ Shoe rack
3. Computer works on the given by you.
☐ a. Data ☐ b. Files ☐ c. Books
4. The hard disk is kept inside the Box.
☐ a. Laptop ☐ b. CPU ☐ c. PCU
5. Storage unit of a computer's memory is called a
☐ a. Byte ☐ b. Bite ☐ c. Bit



Critical Thinking

A. Write the missing letters:

1. a a
2. o u r

3. e o y
4. I o a i
5. e i

B. I am a storage place or a device, guess my name.

1. I am an integral part of computer software.
2. In school, people keep many books
in my room.
3. You keep your books inside me.
4. While coming to school, you put
your notebooks in me.



Team Work

A. Take your teacher's help to play a memory game.

Divide the class into 4-5 groups. Ten unique items can be placed in a tray by the leader. Cover the tray with a cloth. Teacher will show the items in the tray for 30 seconds to the first group. Students in the first group are required to write down all the things' names they can recall in a minute. The one who remembers the most items is the winner!



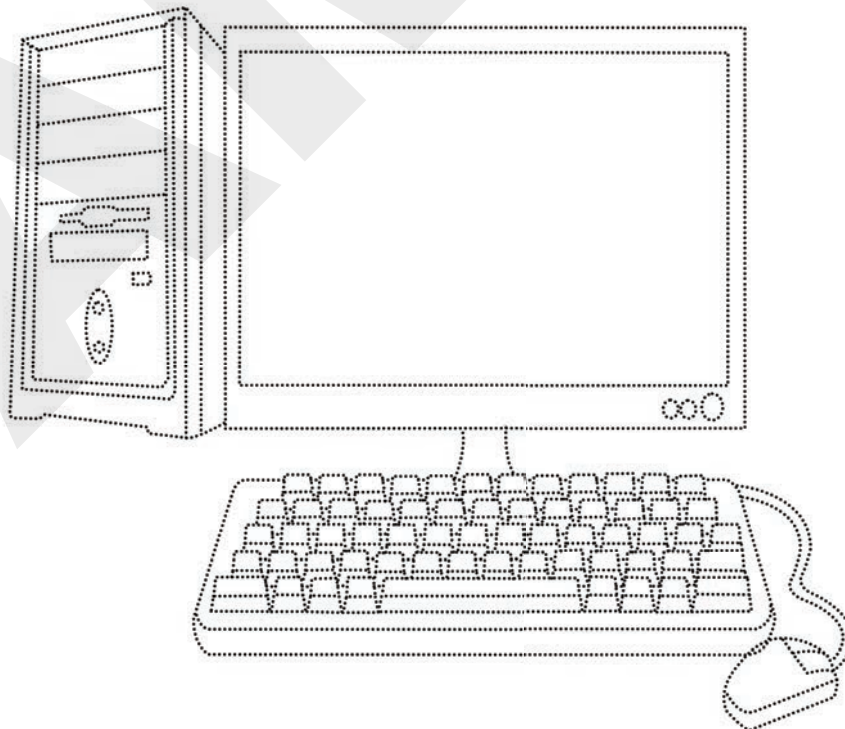
B. Take help and collect pictures of storage devices. Make a collage on an A3 size chart paper.

Fun Game

A. Guess Who Am I?

Hints:

1. I am made up of plastic and steel.
2. My father is abacus.
3. My child is little mobile phones.
4. I can do many work at single time.
5. I am your friend.



B. Let's play this game and solve the riddle with your friends.

