

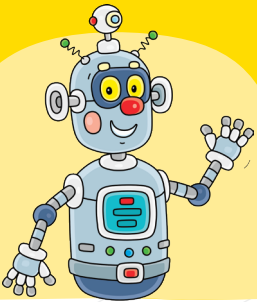


Learning Objectives

- Identify natural things
- Identify man-made things
- Understand what a machine is
- Learn features of machines
- Define a computer
- List features of a computer
- Identify uses of a computer
- Know different places computers are used
- Recognise types of smart machines

1.

Computer— A Smart Machine



Warm-up Activity

Engage & Connect NCF 2023 CG2

Look at the picture below. Circle the things that grow naturally.



Natural and Man-Made Things

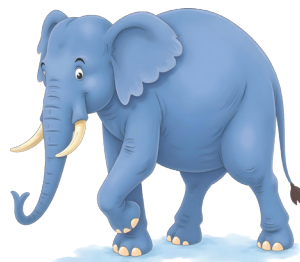
Natural things come from nature. Examples: sun, trees, rivers, animals.



Bird



Flower



Animal



Tree

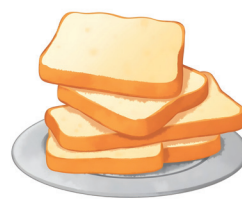
Man-made things are made by humans. Examples: cars, houses, toys, chairs.



Bag



Crayons



Bread



Bus



Activity-1

Learning by doing NCF 2023 CG2 CG4

Name any two natural things you see around you.

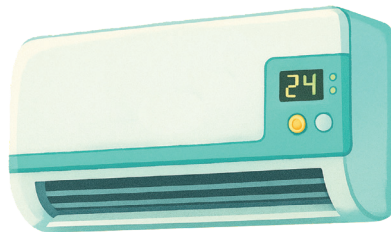
1.
2.

What is a Machine?

A **machine** is something made by humans to make work easier and faster. Examples: Fan, washing machine, car, bicycle.



Juicer



Air Conditioner (AC)



Vacuum Cleaner



Fact

Machines can work for a long time without getting tired.



Tidbit

Some machines use electricity, some use fuel and some need our help to work.



Activity-2

Learning by doing NCF 2023 CG2 CG4

Find one machine at your home.
Paste its picture and write its name.

.....



The Computer—A Smart Machine

- A **computer** is an electronic machine that helps us do many things quickly and correctly.

- Computers can store, show and share information.
- They work when we give them instructions.



Did You Know?

Charles Babbage is called the “Father of the Computer.”



Features of a Computer

- Computers work very fast.
- They do not make mistakes if used correctly.
- Computers can remember a lot of information.
- They can do many tasks at the same time.



In-Text Question

Conceptual Understanding NCF 2023 **CG2**

Charles Babbage is called the “Father of the Computer.”

Uses of a Computer

Computers help us in many ways:

- A computer can be used for studying and learning new things.



- We can play games and listen to music on a computer.



➤ A computer allows us to watch videos and see pictures.

➤ We can send messages and emails using a computer.



➤ A computer helps you make drawings and write documents.



Activity-3

Learning by doing NCF 2023 CG2 CG4

List any two things you like to do on a computer.

1.
2.

Places Where Computers are Used

Computers are used in many places, such as:

➤ Computers are used in schools for teaching and learning.



➤ Computers are used in homes for study and play.

- Computers are used in offices for working.



- Computers are used in hospitals for treating patients.

- Computers are used in shops and malls for making bills.



- Computers are used in banks for keeping money records.



In-Text Question

Conceptual Understanding NCF 2023 **CG2**

Where have you seen a computer?

Types of Smart Machines

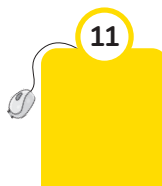
Smartphones

Smartphones are small computers that are used to make calls, send messages and play games.



Tablets

Tablets are larger devices that can be used for reading and watching videos.



Robots

Robots are machines that can do jobs automatically without much human help.



Smartwatches

Smartwatches are worn on the wrist to show time, count steps and do many other tasks.



Did You Know?

Robots can help clean homes and some can even talk.



SDG based Activity



Observe how machines in your home use electricity. Make a list of ways you can save electricity when using a computer.



Chapter Essentials

- Some things are natural, others are made by humans.
- Machines help make work easier.
- Computers are smart machines.
- We use computers in many places.
- Smart machines help us in daily life.



EXERCISES

Conceptual Understanding **NCF 2023** **CG2** **CG4**

A. Tick (✓) the correct option.

1. Which is a natural thing?

a. car



b. tree



c. toy



2. What is a computer?

a. animal	<input type="checkbox"/>	b. machine	<input type="checkbox"/>	c. plant	<input type="checkbox"/>
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3. Where do we use computers?

a. forest	<input type="checkbox"/>	b. office	<input type="checkbox"/>	c. garden	<input type="checkbox"/>
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4. What does a computer help you to do?

a. play games	<input type="checkbox"/>	b. cook food	<input type="checkbox"/>	c. water plants	<input type="checkbox"/>
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5. Which is a smart machine?

a. fan	<input type="checkbox"/>	b. car	<input type="checkbox"/>	c. computer	<input type="checkbox"/>
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B. Fill in the blanks.

smart, school, bank, nature, machine

1. A computer is a
2. Trees and animals come from
3. We use computers in our to learn.
4. Computers are machines.
5. We keep our money in a

C. Write T for True and F for False.

1. Computers are natural things.
2. A car is a machine.
3. We can use computers in hospitals.
4. Animals are man-made things.
5. Computers help us draw pictures.

D. Answer in one word.

1. Who is called the Father of the Computer?
2. Which smart machine is used to make calls?
3. Where do doctors use computers?

E. Case Study/Application-based Question

Your uncle wants to keep records of all the items he sells in his shop. Which machine should he use to help him with this task?

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Let's Fun

Joyful Learning NCF 2023 CG2 CG4

Look at the pictures. Which picture shows a machine that uses electricity? Circle it.



Let's Explore

Discovery Approach NCF 2023 CG3 CG4

Find out two different machines at home and write their names.

1. 2.



Computer Lab Activity

Experiential Learning NCF 2023 CG4

With your teacher, visit the computer lab. Identify different types of computers and machines you see.



Teacher's Note

Holistic support for learners NCF 2023 CG1 CG3 CG4

Use real objects and pictures to show natural and man-made things. Demonstrate computers and other machines. Encourage children to share their own experiences with smart machines.

