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COMPUTER - A SMART MACHINE



CHAPTER OBJECTIVES

- Natural and Man-made things.
- What is a machine?
- What is a computer?
- Types of Computers

There are many things around us. Some things are natural, such as trees, flowers and fruits. But there are many other things that are man-made, such as cars, pencils, watches, books, chairs, bags, school bus etc. They are called human made things.



Natural Things



Sun



Mountain



Tree



Man-made Things



School Bus



Chair



Book

What are Machines?

Machines are made by humans to make our work easy. They also help us to do our work quickly and save our time.

Quick Tip

Machines are man-made things.

Examples of some machines are given below.



Refrigerator



Washing Machine



Bicycle



Motorbike



Television

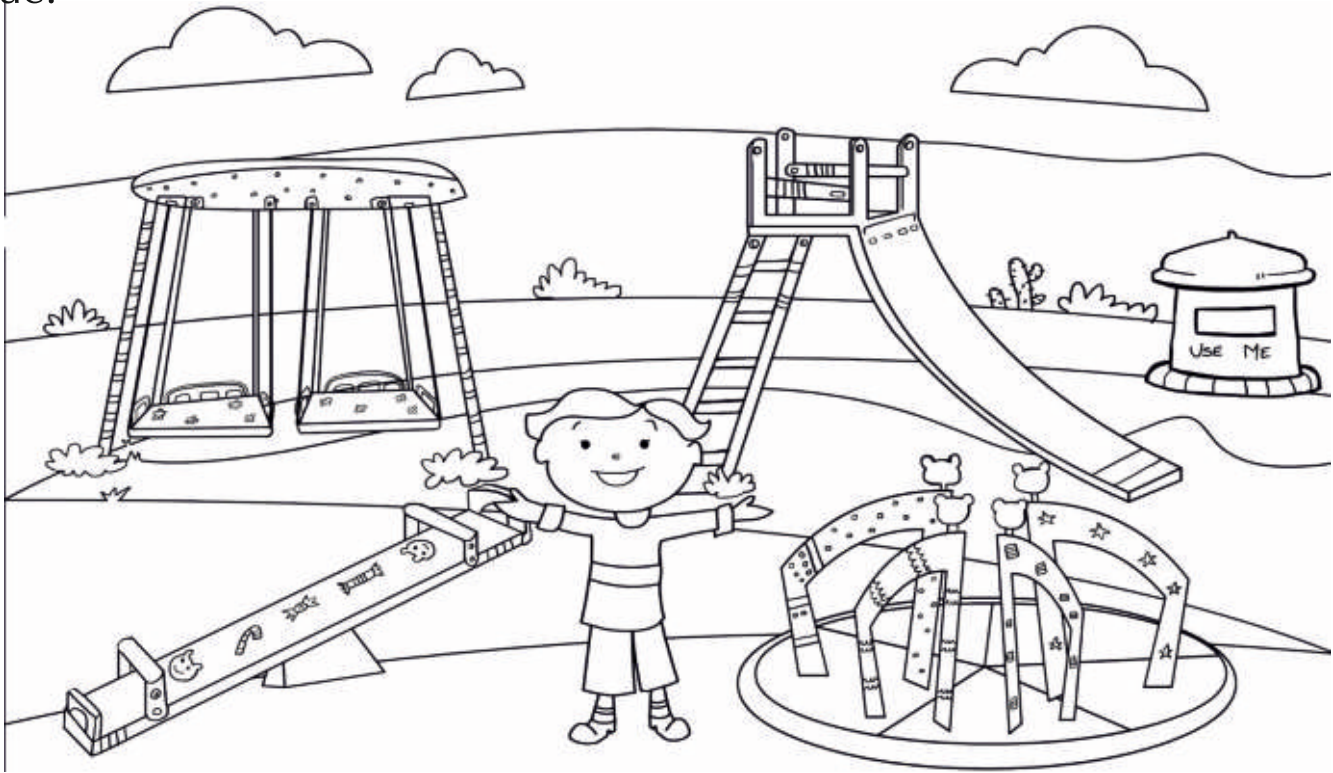


Car



Practice Zone

Look at this picture. Colour the natural things **red** and man-made things **blue**.



More about Machines

- ◆ We use machines in our everyday life.



Some machines run on batteries.



Some machines run on electricity.



Some machines run on fuel and electricity.

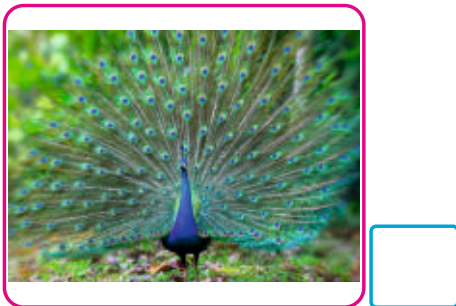


Some machines need our efforts to work.




Are all man made things machines?

Put a tick (✓) on the objects that are machines :



What is a Computer?

 A computer is an electronic machine. It makes our work easy and saves our time. It needs electricity to work.



Characteristics of a Computer

Computers are machines that have a lot of qualities. These qualities are :



A Computer





- ◆ **Speed** : A computer is very fast. It takes only few seconds for calculations that we may take hours to solve.
- ◆ **Accuracy** : A computer always gives accurate results.
- ◆ **Diligence** : A computer never gets tired or bored. It can do the same work again and again with the same accuracy and speed.
- ◆ **High Storage** : Computer can store a large amount of data safely in its memory for future use.
- ◆ **All-rounder** : A computer can perform different types of tasks at a time. For example, you can type a letter in MS-Word and listen to music at the same time.



TYPES OF COMPUTERS

Computers come in many shapes and sizes.

Desktop Computer is a computer that is kept on a desk. It is big in size. It cannot be carried from one place to another. It is also known as a PC or a **Personal Computer**.



Desktop Computer



Laptop Computer

Laptop Computer

A laptop is a computer that can be carried anywhere. It is small in size. It can be kept on our lap. It is battery operated.

Tablet Computer

A tablet computer is a very small computer which can fit in our hands. It can also be carried anywhere.



Tablet Computer

Quick Tip

A mobile phone is also a type of computer





Spell Zone

in Write these new words three times to learn the spellings.

Machine

Electricity

Computer





Snapshot



- ◆ There are many different things around us.
- ◆ Some things are natural while others are man-made.
- ◆ The computer is a man-made machine.
- ◆ Computers run on electricity or battery.
- ◆ Desktop PCS, laptops, tablets and smartphones are different types of computers.
- ◆ A desktop computer is kept on a desk.
- ◆ A laptop can be carried anywhere.
- ◆ A tablet computer can fit in our hands.



CHECK YOUR KNOWLEDGE



A. Tick (✓) the correct option :



1. Which of these is a machine?

(a) Television (b) Book (c) Horse

2. A bus runs on

(a) Fuel (b) Water (c) Orders





3. runs with human power.

- (a) Bicycle
- (b) Television
- (c) Car

4. A computer is an machine.

- (a) Boring
- (b) Electronic
- (c) Beautiful

5. A computer works very fast.

- (a) True
- (b) False
- (c) None of these

B. Fill in the Blanks :

car, smart, tasks, human, time

1. A computer is a machine
2. A is a man-made thing.
3. A machine can run with power.
4. Machines save our
5. A computer can do a variety of to help us.

C. State True or False :

1. A computer needs electricity to work.
2. A machine works very fast.
3. A machine gets tired.
4. We can do different types of work with the help of machines.
5. A computer cannot store data in it.



D. Tick (✓) the correct answer.

1. Which of the following is a man-made thing?

(a)  (b)  (c) 

2. Which of the following machines are used inside the house?

(a)  (b)  (c) 

3. Which of the following is a machine?

(a)  (b)  (c) 

4. Which of these is not a machine?

(a)  (b)  (c) 





E. Answer the following questions :

1. What is a machine?

2. Write two uses of a machine.

3. What is a computer?

4. Write any three characteristics of a computer?



 **Activity Time**

Lab Activity—

A. For Teachers

Take the students to a computer lab and show them the details of a computer system.

B. For Students—

Listen to the teacher as she/he discusses how computers help people perform various tasks.



My Activity

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A. Identify the pictures. These are the members of the computer family. Write their names below.

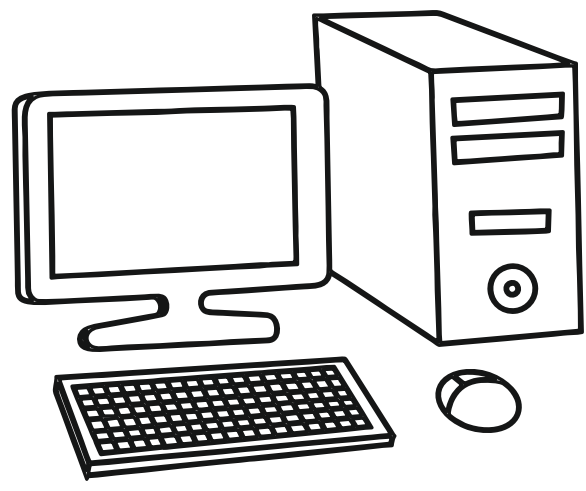








B. Colour these computers as per the colour key given here.



PC : Blue



Laptop : Green





C. Mark a tick (✓) for the correct statement and cross (×) for the wrong statement.

- (a) Machines save our time.
- (b) A computer needs electricity to work.
- (c) A computer is a machine.
- (d) A tree is a machine.
- (e) A computer works very fast.

D. Tick (✓) the machines that need electricity to work. Cross out (×) the other machines.

