



INCORPORATES
NEP 2020

CODING



CYBERWAVE

Foundations of Information & Communication Technology



COVERS

COMPUTER BASICS

EXERCISES

LAB ACTIVITY

PROJECT WORKS

Updated to
Windows 10
MS Office
2010

1

LEVEL



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CYBERWAVE

Foundations of Information & Communication Technology



CYBERWAVE : Level - 1

(Foundations of Information & Communication Technology)

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Preface

We are living in a world powered by computers. Today, computers are present in all sectors of our society. Thus, knowledge of Computer Science is increasingly becoming an essential skill for staying competitive in the future.

Cyber wave Computers is a series of 10 books for classes 1 to 10. The series introduces concepts in a step-by-step manner using simple language. The content provides the latest facts and figures. The screenshots included in the series are of **Windows 7**, updated to **windows 10** and **Microsoft Office 2010** version.

In Books 1 and 2, the basics of computers, including its various parts, have been introduced. MS Paint software, which will help students to acquire skills for using mouse and keyboard, has been introduced. In Books 3 to 10, **programming language** software, **animation software** and **coding** have been introduced in respective classes.

Most of the topics/chapters have been covered in a child-friendly manner along with sufficient definitions, diagrams and tables.

Activities are designed to bring out the joy of learning by discovering. Exercises, Worksheets, lab questions have been developed keeping in mind the learning ability of the students.

We sincerely welcome constructive feedback and suggestions to improve the series which will be incorporated in further publication.

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*With regards
Informatix & Team*

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My Computer

Let's Begin



Hi Kids,

Look at the picture. Do you know what is this?

Yes ! This is a computer. Let's Learn more about this machine.



Let us Do!



I am smart and intelligent like no one.
With me you can enjoy and have fun.
Guess who am I ?



We all use computers in day to day life. Some use for playing games, some to listen to music and some for reading story books. As elders we use computers to type documents, search information, send e-mails and so on.

We can perform number of things on computer. It makes our work easier. Lets read about its uses.

Let's Discuss

1 List the things that you like to do using computers

- a. Playing games
- b. _____
- c. _____
- d. _____



2 Discuss with your friend.



3 Does your friend also like to do similar things on the computer ?

Yes No

4 Write one task that you do not like to do on a Computer.

Uses of a Computer



1

We can draw pictures and fill colors in these pictures.



2

We can read stories and poems on it.



3

We can send/receive emails to/from our friends.



4

We can play games on it.



5

It can play songs, movies and music for us



6

We can write letters and stories on it.



7

We can quickly solve our sums on it.



8

We can talk to anyone, anywhere in the world.



Time to Answer

1 Name a movie that you have seen on a computer.

2

Name two games that you play on a computer.

3

With the help of your teacher play songs on computer. Observe how your teacher arranges the parts of the computer.

4

Do your parents use a computer to book tickets for a movie ?

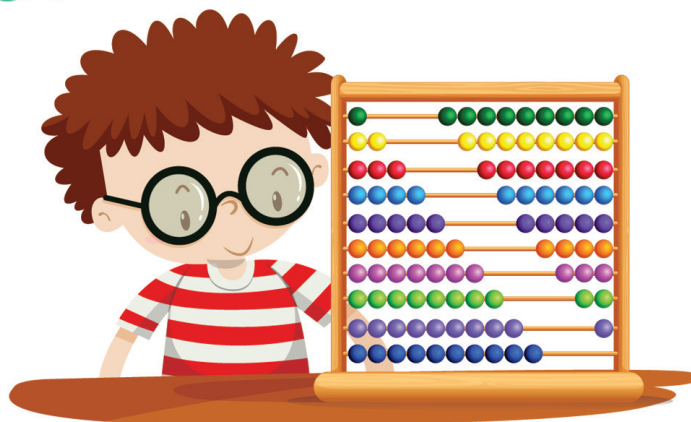
Yes

No

Do you know ?



Abacus was the first computer.



Let us Practice

I. Write any five uses of the computer.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____

II. Tick (✓) the correct statement and cross (X) the wrong one.

1. We can read story books on a computer.
2. We can not watch movies on a computer.
3. We can only draw but can not colour the picture.
4. We can t play games on the computer.
5. We can see our friends while talking to them on the computer.

III. Fill in the blanks using the words given in the help box.

1. We can _____ and colour a picture.
2. We can quickly solve _____ on the computer.
3. We can play _____ on the computer.
4. We can read _____ on the computer.
5. We can send & receive _____ to/from our friends.

Draw Emails Games Sums Stories



Activity Zone

I. Look at the pictures given below. Mark them with tick(✓) if a computer can do the task and with the cross (x) if the computer cannot do the task.













II. Complete the sentences with the help of given clues.



We can



We can



We can



A Magical Machine

We see many things around us. These things are natural or man-made. Natural things are created by nature, like air, water and soil. Man-made things are made by man, like car, table, and pen. These things make man's life happy and joyful.

Natural and Man made things



Write **N** for natural and **M** for man-made things in the picture given below and write down their names below, in the space provided.



1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Machines



Machines are also man made things. They help us to do our work easily.

- A refrigerator is a machine that keeps things cool.
- A television is a machine to watch programmes and cartoons.
- A car is a machine that takes us to different places.

Some machines need electricity to work



Microwave Oven



Air Conditioner



Mixer

Some of them use fuel like petrol or diesel to work

Among all these machines, one thing is common that is each one can be used to do a particular task.



Motor Bike



Car



Aeroplane

Let us Do!



Which machine will you use to do the following activity ?



Let's Discuss

Look at the following pictures. Point at the pictures and read their names aloud. Fill in the blanks to complete the words.



S n



Co pute



C r



St rs



Riv r



Bi d



Cha r



B ke

Today, we are going to see a magical machine which can do many different types of work for us.

Now look at the following picture ! What is this ?



This machine is called **COMPUTER**. Just like any other machine, **COMPUTER** also runs on electricity. It is a wonderful machine because it has more special qualities than any other machine.

Special Qualities



Never make Mistakes



Can do Multi Tasking



Never gets Tired



Works Very Fast



Can Store Many Things

Time to Answer

Look around for examples of simple machines that you often use.

- a. _____
- b. _____
- c. _____
- d. _____

