

# Pioneers of COMPUTER

*Level 5*



  
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## Introduction

### Dear Teachers,

I introduce in this book my humble contribution in order to help you cope with the latest developments in the second millennium, taking into consideration the needs of our dear students, who will be the leaders of the future and the new generation that will make the necessary changes for the interest of humanity. Therefore, I have adopted in my series the latest educational strategies based on ERFKE so as to create the proper educational environment, and build a generation that can be able to cope with information technology, and face the challenges imposed by the accelerating growth in the acquisition of information and skills, and to progress steadily toward employing technology in education. I do strongly believe that students have the abilities to promote progress in the country and achieve the aspirations of the nation by applying the up-to-date methods which support the student and make him or her the core of the educational process. Development processes require more efficient roles in preparing and planning in the field of education, and using various proper educational resources and aids, and giving the students, chances to express freely their opinions through democratic and independent channels.

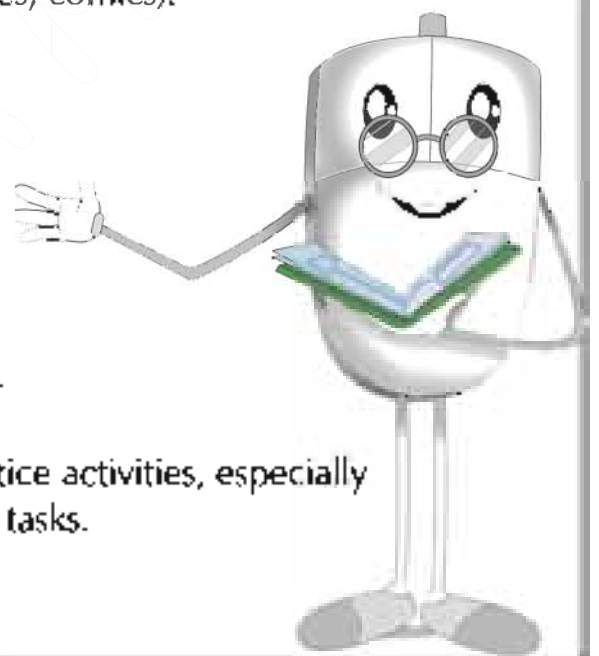
### Dear Teachers,

Notice that the programs in the book are authorized in all publications and meet all specifications set by Microsoft. The materials included can be enriched by educational and recreational programs.

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## Teacher's role in teaching processes

- You're the leader.
- Listen to your student and let him express his own opinion.
- Encourage your student to participate, and ask him to try again when he makes a mistake.
- Encourage self-assessment.
- You're the guide. Let your students practice about 75% of the time of the lesson.
- Encourage your students to use co-operative activities.
- Listen to your students. Vary your communication methods (Facilities, such as diagrams, figures, puzzles, comics).
- Use available technology as learning tools.
- Explain the lesson in short steps.
- Evaluate continuously their understanding.
- Use the work sheets to enrich the material.
- Give enough time to your students to practice activities, especially to students with special needs to finish the tasks.



# Unit 1

## Computer Education



**In this chapter we will learn about the risks threaten computers and cause data and information loss. Moreover we will learn about precautions we have to consider in order to protect data and information. After that we will consider the use of computers in education, furthermore we will identify the situation where computers do a better job than human and vise versa.**

### Objectives:

- Recognize risks facing the computers and causing the data and information loss.
- Identify viruses and its signs.
- Learn about Back up.
- Recognize precautions we should consider to protect data and information from being lost.
- Learn about antivirus.
- Study the usage of computes in schools and universities.
- Identify the situation where the computer performance is better than the human.
- Identify the situation where the human's performance is better than the computers.

## Risks facing the computers

The most important computer's feature is the enormous ability to save and process data. And is known to all that data saved on computer is the results of years of hard work and experience, and it's the strongest tool, that's why companies and countries ask experts to steal, tampering with, or damage the information. On the other hand companies and countries worked to protect their data and information against threats.

### 1. Data and information lose

The data and information saved on computers are so valuable; its value depends on its importance. there are many reasons for data lose, including:

1. **Natural factors:** such as earthquakes, volcanoes which cause computer damage.
2. **Stealing or burning:** someone may plan to steal a compute device from a company or institution to have the valuable data saved on it, or it may be for the computer device itself, and in both cases the company will lose the data and the information. Moreover fires may cause computer damage.
3. **Sudden power shutdown:** repeated power outage may destroy the hard disk which has the data and information, and cause their lose.
4. **Viruses:** a small sized program mainly created to delete data or deactivate the programs. and there are many symptom shows that the computer is infected with virus, including:
  - Deactivation for some computer programs.
  - commands take longer time to be executed
  - less hard disk storage space
5. **Illegal entrance of unwanted persons** like (hackers, crackers) to the data found in computers in order to destroy it.
  - Hacker's: unwanted persons entry to the data in order to see it only.
  - Crackers: unwanted persons entry to the data in order to destroy and delete data.



Activity

## (1-1) Loss of Data and Information

▶ Which has more dangerous effect Hackers or Crackers? Why?

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### 2. precautions to be followed to process the data loss

There are many ways to process the data loss

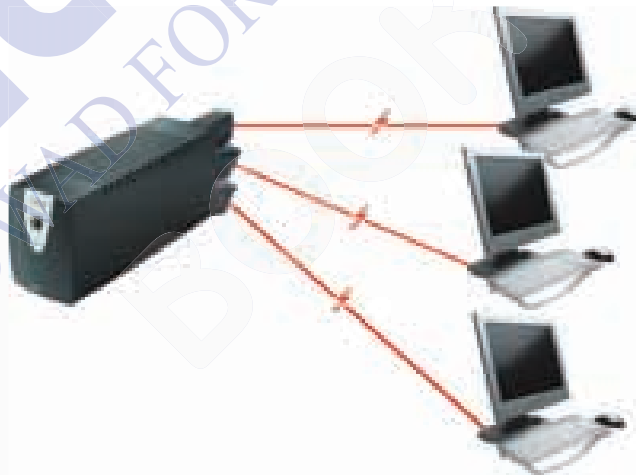
1. Backup: it's the copy of data, information, and programs on optical or magnetic disks, and save them for use in case of machine broken according to fire, stolen, or damage. And it is preferred to save the backup in a safe place away from risks.

#### types of backup

- **Incremental backup:** a backup copy for the new data is made at the end of the day and a copy for the whole data is made at the end of the week or month.
- **Full backup:** a copy for all files and programs found on the device

2. The use of Uninterruptible Power Supply ( UPS)

The UPS are used to supply computers with all required energy to save data and shutdown the device safely, to protect and keep the hard disk and the data saved on it unharmed.



3. Virus Prevention: there are several ways to prevent computer from virus :
- The use of Antivirus programs such as Norton Antivirus, MacAfee Virus Scan, and Kasper Sky.
  - The use of original version programs.
  - Don't open emails from unknown source.
4. Apply a protection to avoid unwanted persons such as hackers and crackers , where protection can be provided by:
- Firewalls.
  - Assigning password.

Activity

**(1-2) Measure to Deal with loss of Data**

▶ Complete the following table:

Issue can cause data lose	Ways of repair
Natural disaster such as Earthquakes, volcanoes,	1.
and fires	1.
Stealing	1. 2.
Viruses	1. 2. 3.
Hackers, and crackers	1. 2.

**QUESTIONS:**

**Q1. What is the backup importance?**

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**Q2. State three antivirus programs?**

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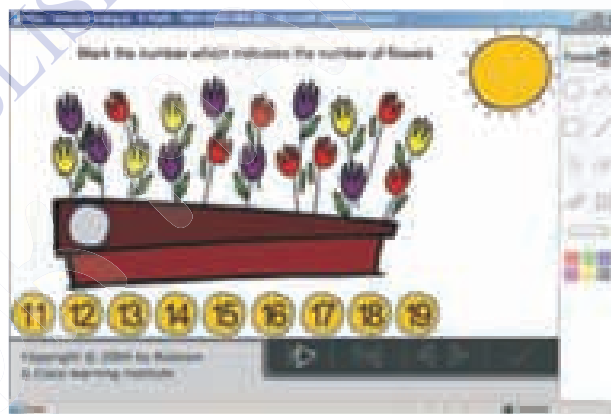
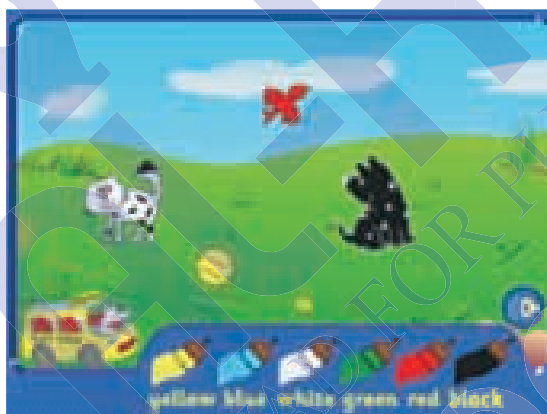
# Lesson 2

## Computers in education

Computer play an important role in nowadays life aspects, its used in houses, works, schools, and in communications, and it becomes an Indispensable part of our daily life. The use of computer in schools and university to meet their education and managerial requirements , including

### 1. Computer Based Training (CBT)

Where we use a variety of educational programs in all areas of science and knowledge produced by specialists in education and saved on CD-ROM to simplify its movement and usage anytime, day or night, education now available in all time, and for a huge group of people without the need for teachers or classes. And with a low cost. Computers replaces the teachers in presenting the materials, activities and in quizzes and their grading, then moving to the next knowledge and so on . The following figure shows some educational programs.



Many countries activate the computerizing their curriculum to provide educational services and technical capabilities to their teachers and students computerizing curriculum where the following electronics educational system has been developed :

- Students E-book
- Worksheets for the material
- Multimedia Explanation for the materials

The following two figures show the electronics educational system