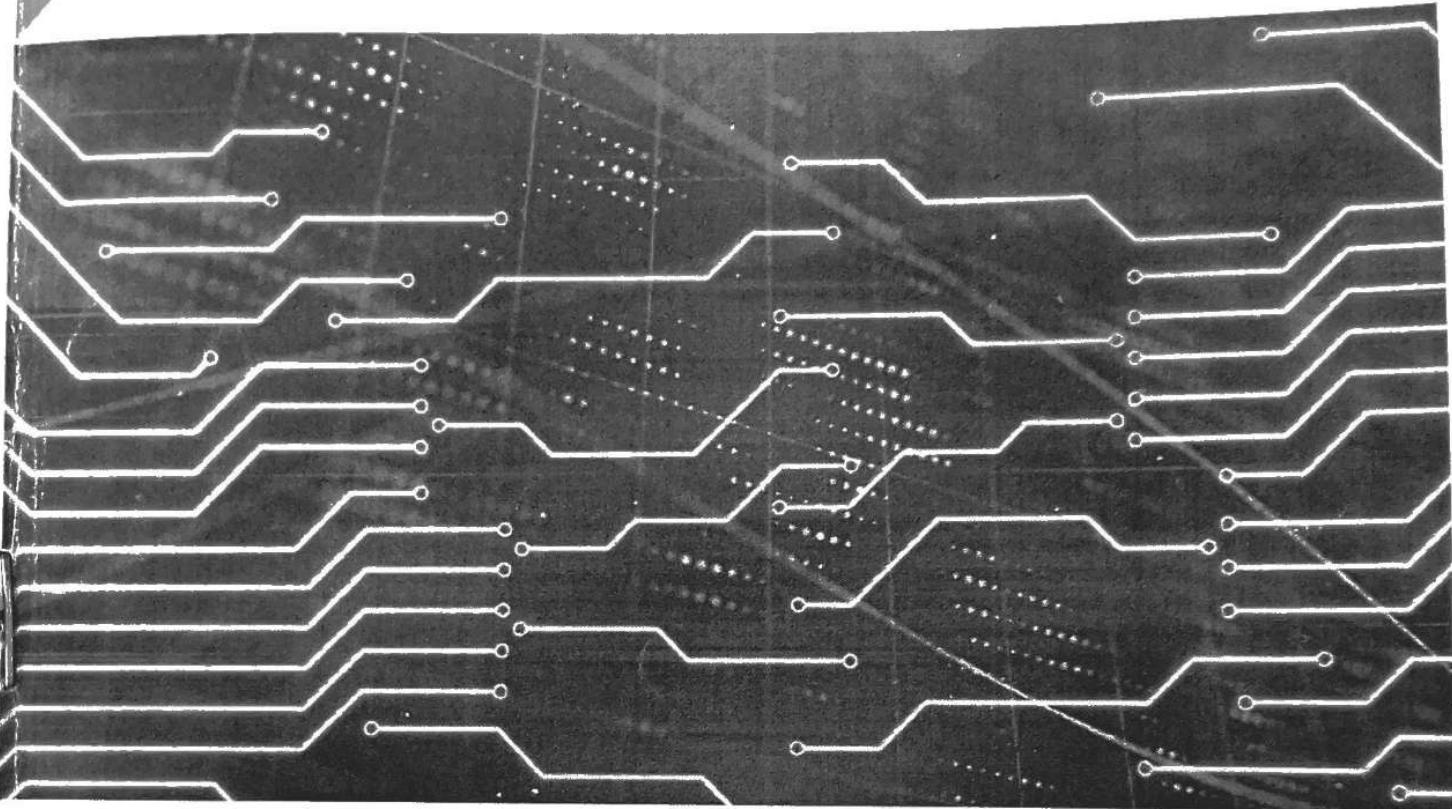


PROTOTYPE



**NCDC**

NATIONAL CURRICULUM  
DEVELOPMENT CENTRE



**ICT**  
**LEARNER'S BOOK**  
**SENIOR ONE**



**LOWER SECONDARY  
CURRICULUM**

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## Preface

This learner's textbook has been written in line with the revised ICT Syllabus. The knowledge and skills which have been incorporated are what is partly required to produce a learner who has the competences that are required in the 21st century.

This has been done by providing a range of activities which will be conducted both within and outside the classroom setting. The learner is expected to be able to work as an individual, in pairs and groups according to the nature of the activities.

The teacher as a facilitator will prepare what the learners are to learn and this learner's book is one of the materials to be used to support the teaching and learning process.

**Hon. Janet K. Museveni  
First Lady and Minister for Education and Sports**

# Acknowledgements

National Curriculum Development Centre (NCDC) would like to express its appreciation to all those who worked tirelessly towards the production of the Learner's Textbook.

Our gratitude goes to the various institutions which provided staff who worked as a panel, the Subject Specialist who initiated the work and the Production Unit at NCDC which ensured that the work produced meets the required standards. Our thanks go to *Enabel* which provided technical support in textbook development.

The Centre is indebted to the learners and teachers who worked with the NCDC Specialist and consultants from Cambridge Education and Curriculum Foundation.

Last but not least, NCDC would like to acknowledge all those behind the scenes who formed part of the team that worked hard to finalise the work on this Learner's Book.

NCDC takes responsibility for any shortcomings that might be identified in this publication and welcomes suggestions for effectively addressing the inadequacies. Such comments and suggestions may be communicated to NCDC through P. O. Box 7002 Kampala or email: [admin@ncdc.go.ug](mailto:admin@ncdc.go.ug).

**Grace K. Baguma  
Director, National Curriculum Development Centre**

# Chapter 1

## Introduction to ICT



### Key Words

- ICT
- hardware
- software
- peripherals

After reading this chapter and practicing its activities, you will be able to:

- a) explain what ICT is all about.
- b) identify common ICT tools and their uses in various fields.
- c) use various ICT tools.
- d) appreciate the Safety precautions for the different ICT tools.

### Introduction

In this chapter you will learn about the meaning of ICT and appreciate its various applications in daily life. Just imagine the world without ICT! How would communication, transfer of money, security, transport, learning and others in our lives be like?

### Meaning of ICT

ICT stands for:

I - **Information**,  
C - **Communication**  
T - **Technology**

Hardly a day passes when ICT does not intrude into our lives. ICTs are used daily and in one way or another, people are connected through telephone networks, the Internet and the World Wide Web. Refer to **Figure 1.1**.



**Figure 1.1: Common ICTs**

Imagine Mr. Kaboyo making a telephone call to his mother Mukade Jalia to send her New Year greetings. In this case, Mr. Kaboyo and his mother are communicating using a technology (mobile telephone) and information is the New Year greetings.

ICT can be compared with other systems. Let us compare ICT and a water system.

**NOTE: ICT is electronic while a water system is mechanical.**

Imagine a water system comprising of a water tank, water, taps, pipes and water moving through the pipes. This can be related to ICT as follows.

**Table 1.1: Comparison of a water system and an ICT system**

Water system component	ICT
Taps, water tank, pipes	Technology
Water	Information
Water flowing through pipes	Communication

**Activity 1.1: Meaning of ICT**

1. In groups, look around your school or your community and identify at least 3 ICTs familiar to you. State the function of each of the ICTs identified in the table below.

**Table 1.2: ICT tools and their functions**

ICT Tool	Function
E.g. Camera	Capturing photographs
1.	
2.	
3.	
4.	

2. Select any two ICTs from **Figure 1.1** and identify the information they handle, the nature of communication that takes place and the technology used.
3. With the available ICT tool, practice using it and identify the I, C, and T in it.

**Common ICT Tools**

At the beginning of this chapter, the meaning of ICT was introduced. When we talk about ICT tools, we are referring to devices or objects used in ICT. As people need and use hammers, hoes, conveyor belts and pangas to produce, process and manufacture food, they similarly use tools for data capture and processing, information storage and communication.

Therefore, ICT tools are not one solid thing but rather a collection of several electronic tools.

**Figures 1.2 – 1.5** show some examples of basic ICT tools we interact with in our day-to-day activities.



Figure 1.2 Desktop computer set

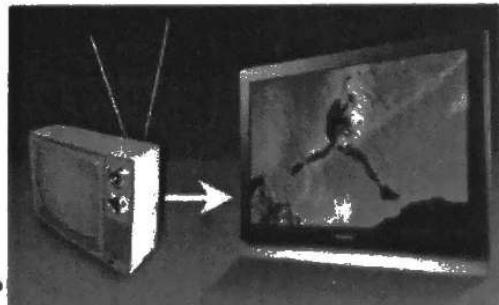


Figure 1.3: Television sets

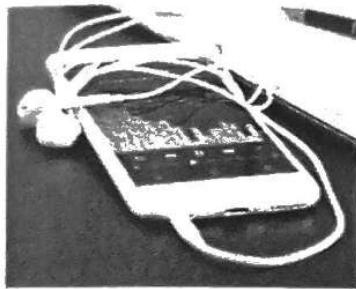


Figure 1.4. Telephone handsets

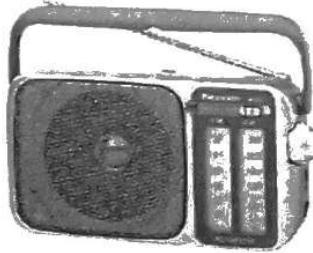


Figure 1.5. Radio

### Activity 1.2: Common ICT tools

In groups, identify the ICT tool provided by name and characteristic(s). Summarise your findings in Table 1.3.

Table 1.3: ICT Tools and their characteristics

Name of ICT tool/s	Characteristics
Computer	<ul style="list-style-type: none"><li>• Electronic tool</li><li>• Has hardware and software</li><li>• Can store information temporarily or permanently</li></ul>

### Activity 1.3: Identifying ICT tools with their specialized professional fields or areas

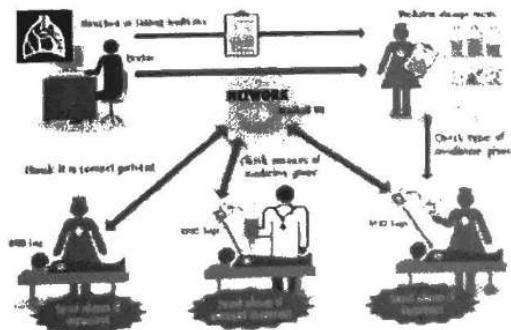
Identify and state some ICT tools and what they can be used for in specialized fields such as communication, manufacturing, teaching and learning, health and medicine, security, climate and weather, management.

**Note:** A computer is a major component of ICT.

### Use of ICTs in society /Application of ICT

At the beginning of this chapter, you learnt that ICTs are used to collect and share information. In all situations, the ICT devices are used by people or programmed by people to simplify work.

In our society today, use of ICT is on the increase in all areas. ICTs are used to collect and communicate information in our homes, schools,



hospitals, banking halls and many other places. ICTs are also used in the entertainment industry, security, agriculture and transport.

In the security sector, ICTs are used to monitor sensitive areas like banking halls, airports, screening bags for unwanted materials and objects and many others. However good ICTs may be, in some cases, pose challenges.

#### **Activity 1.4: Application of ICTs**

- a) In groups, identify the ICT devices used in each of the application areas shown in Table 1.4 and what they are used for. Please note that each of the application areas can have as many ICT devices as possible.

*Table 1.4: Application of ICTs*

<b>Application area</b>	<b>Name of ICT Device</b>	<b>What is it used for?</b>
Home	Mobile phone	Sharing information in form of SMS, pictures, emails, voice messages between users.
School		
Entertainment		
Security		
Hospitals		
Transport		
Agriculture		

- b) Give any advantages and disadvantages of using ICTs in our society.

#### **ICTs in business**



*Figure 2 Electronic Point of Sales (EPOS)*

Most supermarkets, especially the big ones, have adopted the use of Electronic Point of Sales (EPOS). If you have bought an item from a shop and it was scanned to determine the amount you need to pay, you have used an EPOS. An Electronic Point of Sales (EPOS) is self-contained, computerized equipment that performs all tasks of a store checkout counter. It allows payments by cash, bank or credit cards, verifies

transactions and generates a sales receipt. It also coordinates inventory data. With this technology, the shop owners are able to know the items that are bought most, what is left in the stores and the items that are running out.

#### **Activity 1.5: Application of ICT in business**

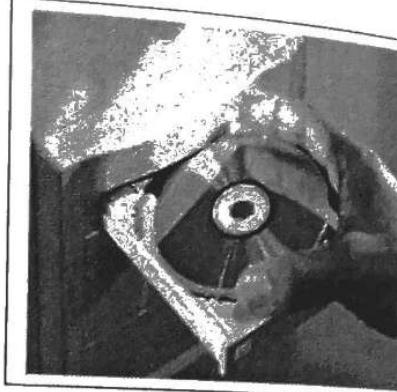
- a) In groups, identify the ICT devices used in any business in your area and what they are used for.
- b) Discuss and make a presentation on the different ways in which a mobile phone can be used as an ICT tool to support business activities.

#### **Handling and Maintaining ICT Tools**

Taking care of your ICT Tools is just as important as taking care of your books. The internal and the external parts of the computer and other ICTs have to be cared for. Taking care of ICT tools is supposed to be done by all people who use these ICT tools. However, as a learner you cannot do all care and safety activities. Activities that require one to open up these tools are left to people who have undergone specialized training on how to do it. As an ICT user, there are certain tasks you can perform to ensure your ICT tools are clean.

These include:

- **Keep dust away:** Dust your computer to keep it free of dust and dirt.
- **Keep food away:** Do not eat or drink while working on the computer.
- **Use clean and dry hands:** Make sure your hands are clean before you type on the keyboard or click the mouse.
- **Treat with respect:** If you are having problems with your computer, ask for help. Do not bang or hit the computer.
- **Keep off:** Seeing that when the computer is connected to electricity, means that lightning could be conducted to your computer through the electrical connection. For this reason it is best not to use your computer during a storm.
- **Stop virus attack:** A computer virus is a program written by a person on purpose to harm other people's computers. A computer virus is passed from one computer to another when you share and download files without the protection of antivirus software. For this reason you should get permission before downloading files.
- **Handle with care:** The way you handle your CDs will determine how long they will last. Always hold the CD correctly as shown in the picture.



Some Computer laboratory safety and maintenance tools and their functions are summarized in the table 1.5.

**Table 1.5: Maintenance tools and their functions.**

Maintenance tool	Function
Dust blower	Can be used regularly to blow dust out of a computer.
Air conditioner	Regulates computer lab temperatures.

#### **Activity 1.6: Handling and maintaining ICT tools**

1. Other than a dust blower and an air conditioner identify any other ICT maintenance tools in the computer laboratory and state their functions.
2. Identify a computer which needs cleaning and clean it up with the necessary tools.
3. Make a report of the steps followed in 2 above and tools used in the cleaning process.

## ***ICT Safety Precautions***

As ICT users, it is very important to take precautions when using ICT tools to avoid getting health problems. We shall learn more about this in the chapter on Health and Safety. To ensure that ICT tools are used with caution, manufacturers provide user manuals for all ICT equipment.

### **Activity 1.7: ICT Safety precautions**

1. In groups, discuss “rules that govern the use of the computer laboratory”.
2. In your opinion what are some of the threats of not protecting ICT tools.

## ***ICT Tools security threats and measures***

ICT tools like any other tools need protection because they can be exposed to a number of risks such as theft, virus, vandalism and others. However, care must be taken in terms of handling, when they are in use and after use to protect them and make them less expensive to maintain. Physical security, Electronic security and Document/files and network security are very critical in addressing the measures of protecting and caring for ICT tools. Some examples of these security measures include burglar proofing for physical security, use of passwords for electronic security and use of firewalls for network security.

### **Activity 1.8: ICT tools security threats and measures**

- i) Take a walk around the school computer installations and identify some security and safety concerns.
- ii) Assuming your school has just acquired new computers and these computers need protection in order to be used for a long period of time. In groups, discuss security and safety measures to safe guard these computers in line with Physical security, electronic security and Document/files and network security.

## **User Manuals**

The teacher will give you a sample user manual. In groups, study and discuss its features.

A user guide or user's guide, also commonly known as a manual, is a technical communication document intended to give assistance to people using a particular system.

A User guide (see image below) contains instructions on installing, using, or troubleshooting a hardware or software product.

**PowerWatch - User Manual**

**Multi-slot card reader module**

**PoweredUSB**

**LCD DISPLAY**

**Default Setting**

	T1	T2	T3	T4
Normal 1	10	15	20	25
Normal 2	15	20	25	30
Normal 3	20	25	30	35
Normal 4	25	30	35	40

**Setting Alarm Temperature**

- Press "THERM" button to enable a thermal alarm.
- Press "SET" button for 3 seconds to enter the alarm temperature setting mode for that particular channel.
- Press "D" or "UP" or "DOWN" button to adjust the alarm temperature from 2°C - 60°C (7°F - 140°F).
- Press "THERM" button for 2 sec again to return to normal mode.
- Repeat step 1-4 to set other channels.

**Browsing**

- Press "THERM" button to enable a thermal alarm.
- Press "D" or "UP" or "DOWN" button to set the alarm "THERM" button again to set the alarm.
- Press "SET" button again to enable a normal mode.

**Setting Time**

- Press "THERM" button once to enter time setting mode.
- Press "D" or "UP" or "DOWN" button to set the hour, then "THERM" button again to set the minute.
- Press "SET" button again to enable a normal mode.

**Celsius / Fahrenheit**

While browsing mode, press "D" or "UP" button to switch between Celsius and Fahrenheit.

**Setting Fan Speed**

- Press "THERM" button to enable a fan speed mode.
- Press "SET" button to increase fan speed in order the fan setting mode.

**CONNECTORS**

How to connect sensors and connectors  
(Please switch off the computer before connecting all cables)

- Plug the 4 pin connector to the sensor boards.
- Connect four 4 pin connectors to Pin 1, Pin2, Pin3 and Pin4 for the first fan sensor.
- Thermal cable  
Please connect sensors to the desired location and a thermal cable.

### Activity 1.9: ICT user manuals

Summarize contents of the user manual provided on 1 page including the safety precautions therein.

### Activity of Integration

ICTs are currently being employed in almost all fields in this modern era. Some of these fields are education, banking and security. For example, in the area of education, it is possible for a teacher in Arua to conduct an online lesson in a school in Kampala.

- Suggest 4 suitable ICT tools required for this teacher to conduct lessons in these two different locations at the same time and explain how the identified tool(s) in a) above can be used to conduct lessons.
- Explain 4 precautions that should be exercised when using the ICT tools in (a) above.

### Chapter Summary

In this chapter, you have learnt about:

- The meaning of ICT
- Common ICTs at workplaces and their uses
- Application of ICTs in our daily lives
- Handling and maintaining of ICT tools
- ICT safety precautions and Security threats

# Chapter 2

## ICT File and Folder Management

### ↳ Directorate Projects 2012

- ↳ Project A - opened Feb 2012
  - ↳ Project A - Communications
  - ↳ Project A - Financials
  - ↳ Project A - Planning
    - ↳ Logs
    - ↳ Project Initiation Documentation
    - ↳ Work packages
  - ↳ Project A - Tasks and timelines
- ↳ Project B - opened Mar 2012
- ↳ Project C - opened Dec 2011
- ↳ Project K - closed Mar 2012

#### Key words

- file
- folder

After reading this chapter and practicing its activities, you will be able to:

- a) use the different types of storage media to create, save and transfer files.
- b) convert data storage into various units.

## Introduction

Hard disk drives have become very large in recent years and are capable of holding millions of data files created by computer applications installed on the computer. As a result, a method of organising these files is essential. Windows uses folders to achieve this.

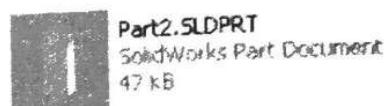
File management is about arranging your work on a computer in a way that makes it easy to use and accessible. While working with your computer programs, you create and save files, such as letters, drawings, or budgets in an organized way. You use folders to group related files, as with paper folders in a file cabinet. In this chapter you will be able to use different types of storage media to store information following the structure of files, folders and directories.

### File and Folders

Files can be stored in folders. Folders can be stored within other folders and these are referred to as sub folders. Examples of the appearances of a file and a folder in windows Operating System is shown below.



A Folder



A File

Filenames are made up of two parts; document name and file extension.

The document name can be up to 256 characters long, including spaces while the file extension is determined by the application being used.

Some examples of file extensions are shown in the table below.

Application	File extension
Microsoft Word	.doc / .docx
Microsoft PowerPoint	.ppt / .pptx

Files and folders can be stored on various storage media such as Flash discs and Hard discs.

#### Activity 2.1: File extensions and storage media

1. Other than hard discs and flash discs, identify other three different storage media within your school computer lab.
2. Compare any two storage media in terms of their advantages and disadvantages.
3. What are the file extensions of files created with:
  - Microsoft Office Access
  - Microsoft Office Publisher

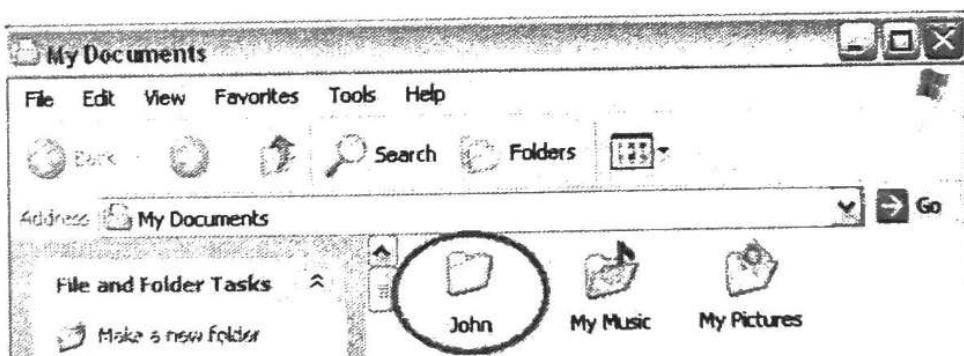
## Organising Files

The management of computer files and paper files has much in common. If all the paper documents accrued in a house or business were stored in a single drawer without using paper folders, it would soon become impossible to find anything.

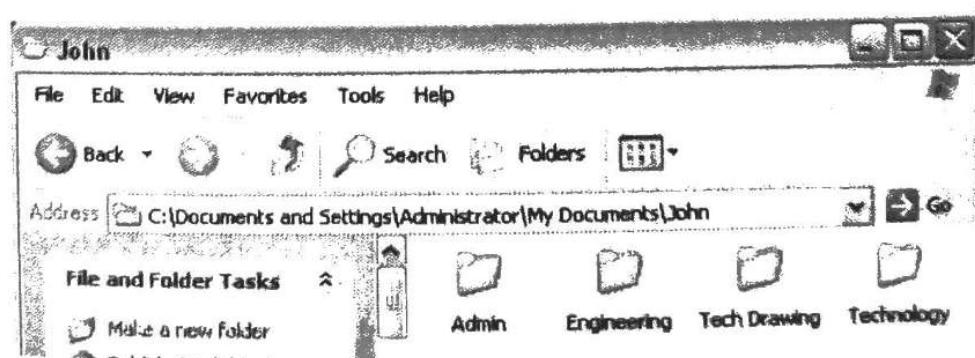
A well organised house will have some filing system to segregate electric bills from telephone bills and from bank statements etc. Files on a computer should be managed in a similar fashion.

A good practice is to use a **Personal Folder** to organise your files. This is the equivalent of a filing cabinet in paper filing. It can be created in the **My Documents** folder or in the **C: Drive** of the computer. This folder is the **Root Folder** of the filing system. Subfolders can then be created for subject areas. Within these, further subfolders can be used to organise the files within each subject. An example is shown below:

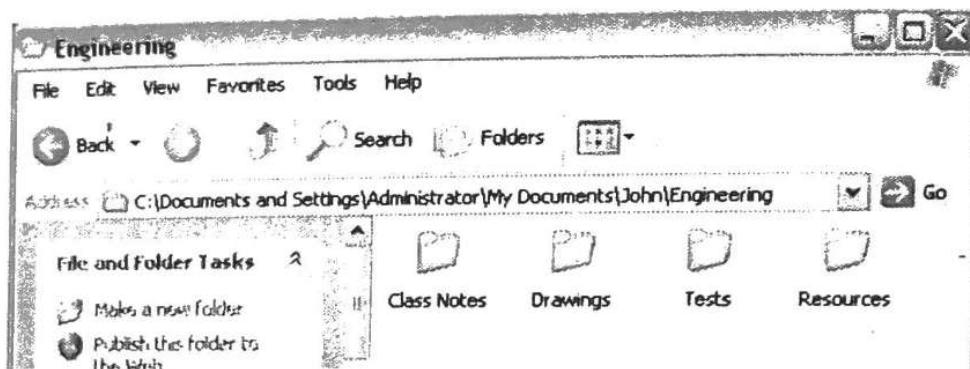
- Create a **Root folder** in **My Documents**



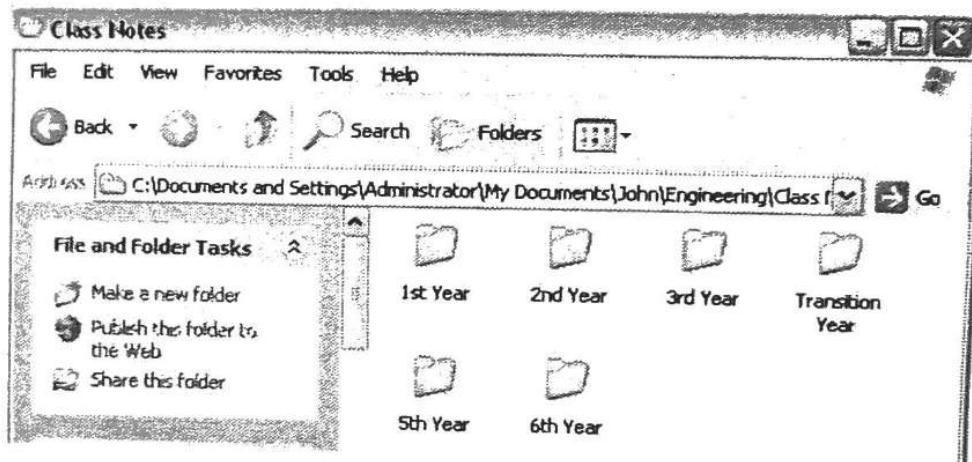
- Create **Subfolders** within the root folder for subject areas etc.



Create further subfolders within the subject area folders



Continue the process until the required level of organisation achieved.



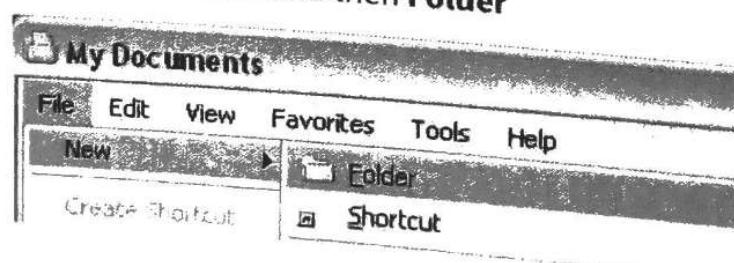
This organisation will make files easier to find and **backing up** your files will involve copying the **root folder** to the backup device.

### Activity 2.2: Creating folders

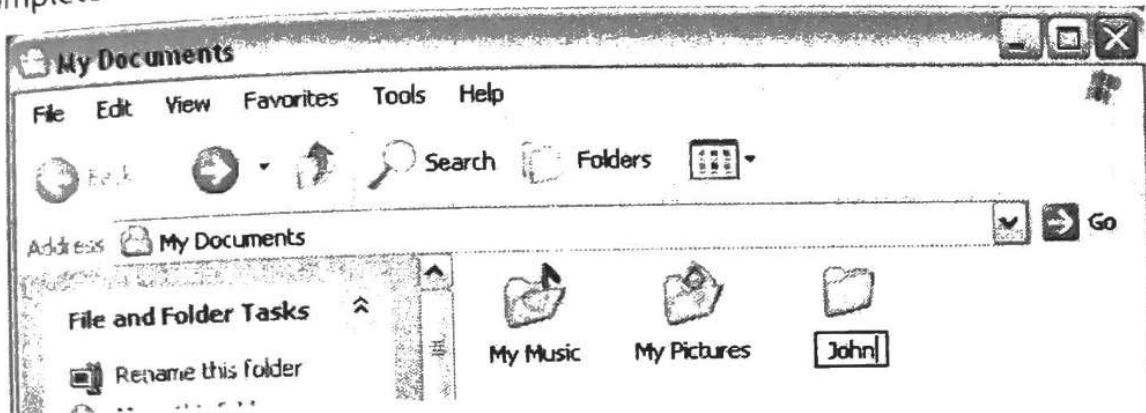
Folders can be created by a number of methods:

#### **Method 1:**

1. Browse to where you want to create the folder.
2. Click the **File menu**, choose **New** and then **Folder**

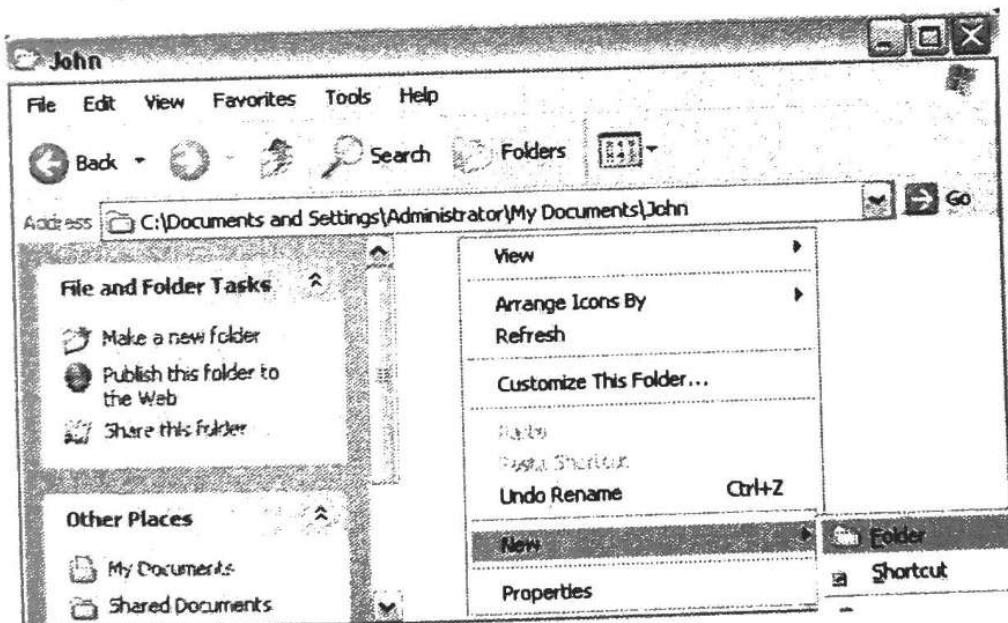


3. The folder is created.
4. Type a name for the folder and press **Return** or click away from the folder to complete



### Method 2:

1. Browse to where you want to create the folder.
2. Right-click within the window, choose **New** and then **Folder**.



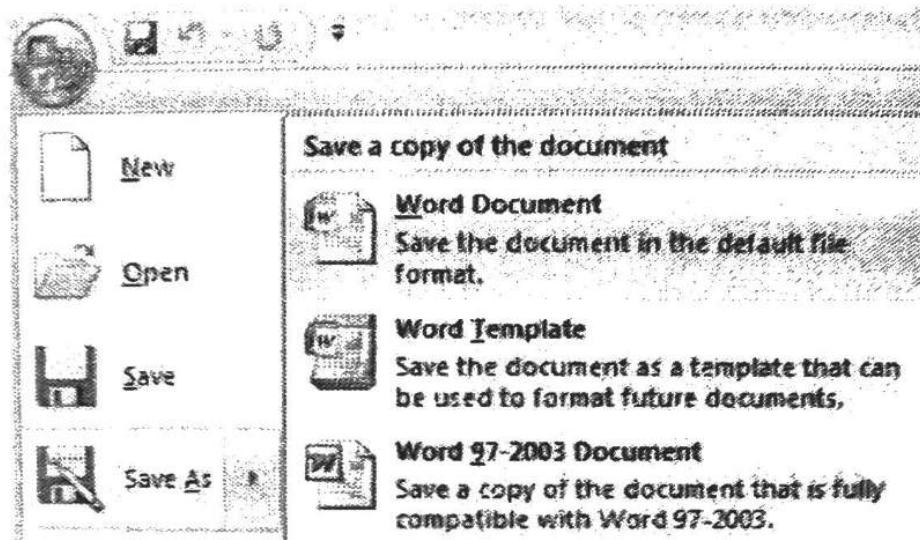
3. Complete as for method 1.

### Method 3:

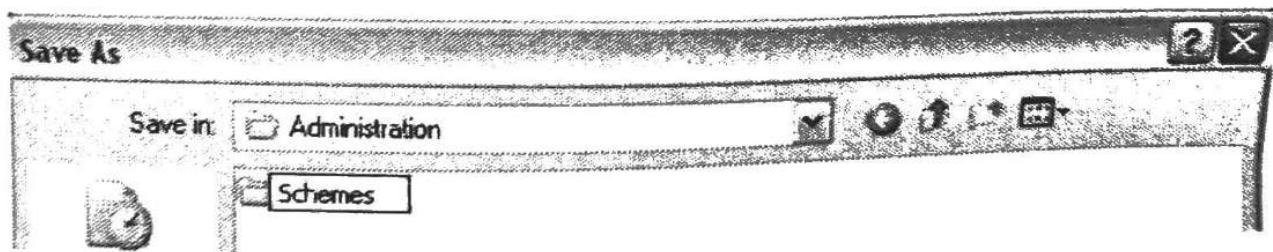
A folder can be created while saving a file in a computer application.

## SENIOR ONE

1. In Word 2007, click the **Office button** and choose Save As and **Word Document**



2. Browse to the required folder and click the **Create New Folder** button.



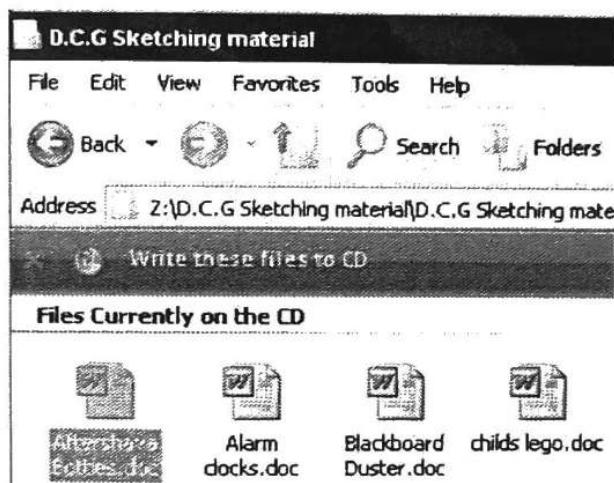
3. **Name** the folder and **Double-click** it to open it. **Save** the file in the new folder.

## Managing Files and Folders

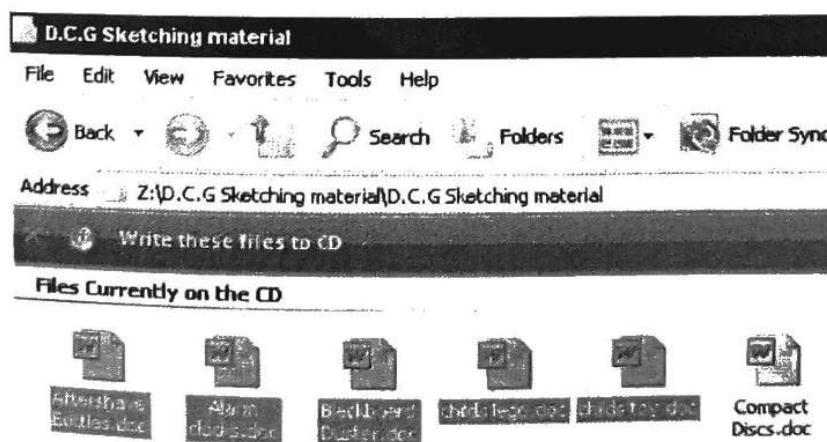
Files and folders can be **Selected, Copied, Pasted, Moved, Renamed and Deleted.**

### Activity 2.3: Selecting Files

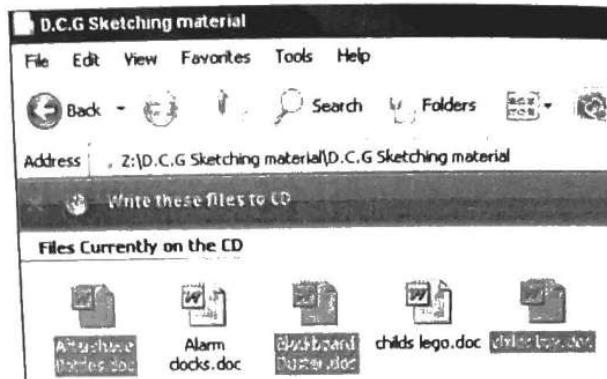
1. Open a drive or go to desktop where there are files and folders.
2. To select a **single file**, just click it. It changes colour on selection.



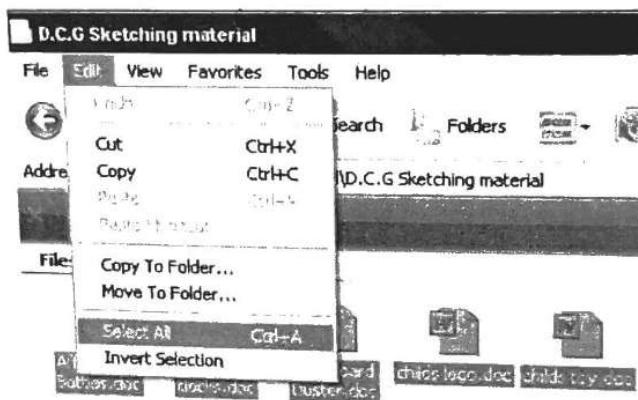
3. To select **consecutive files**, click the first file, hold down the **Shift key** and select the last file. The files in between are automatically selected.



- 4 To select **non-consecutive files**, hold down the **Alt key** and select the files in turn.



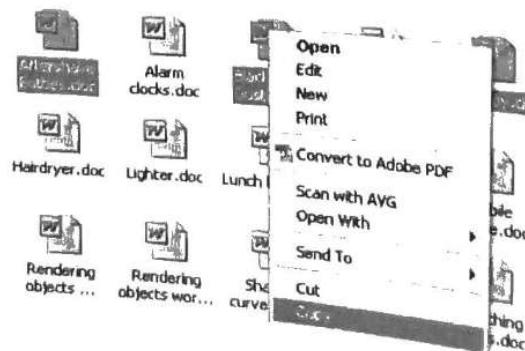
- 5 To select **all the files** in a folder, click the **Edit command** and choose **Select All**.



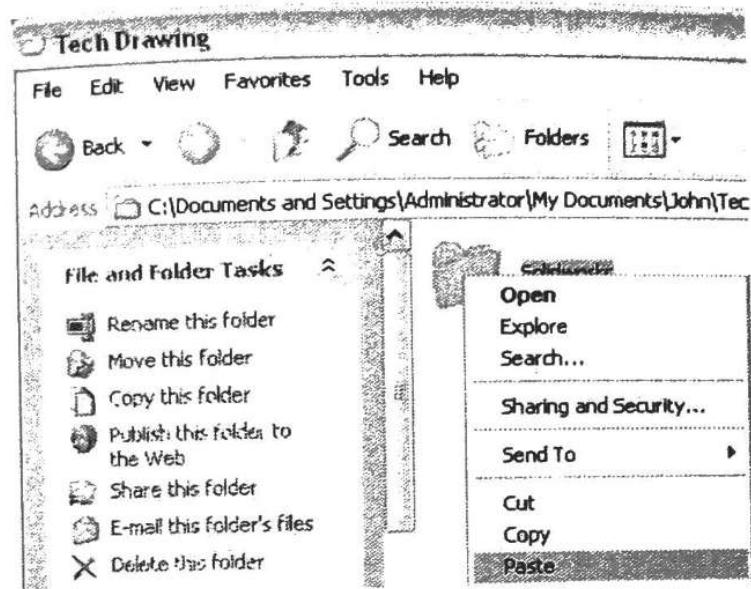
**Note:** The above procedures apply equally to groups of folders.

#### Activity 2.4: Copying and pasting files

1. First **select** the required file/s. Then **right-click** the files and choose **Copy**.  
The files are copied an area of **thememory called Clipboard**

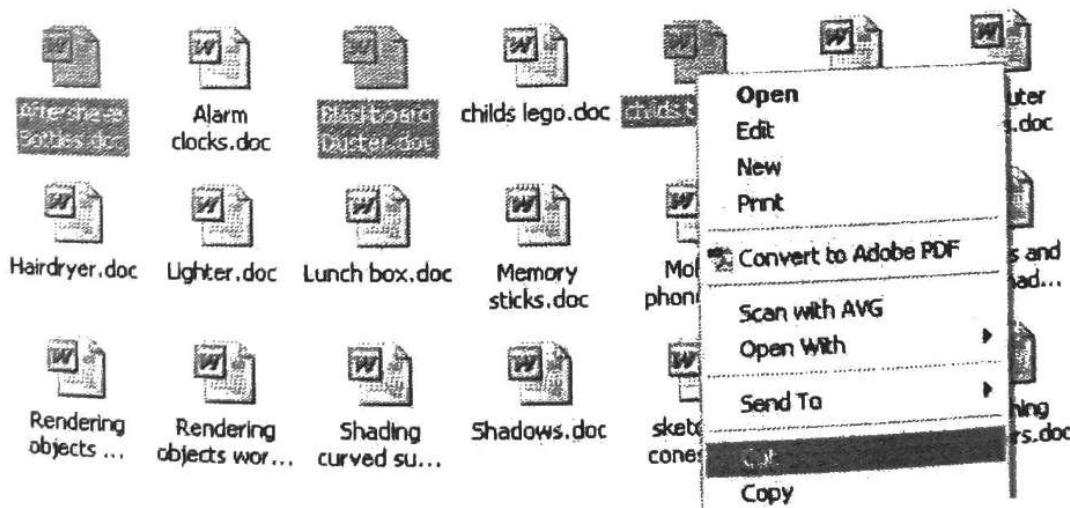


2. Browse to the destination folder, right-click it and choose Paste.



### Moving Files

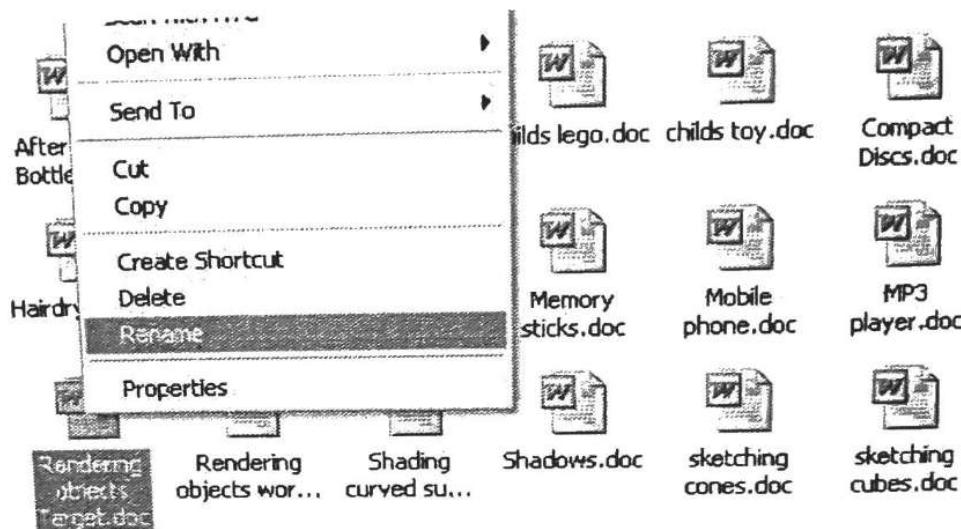
The procedure is similar to copy and paste except that instead of choosing **Copy**, you choose **Cut**.



## SENIOR ONE

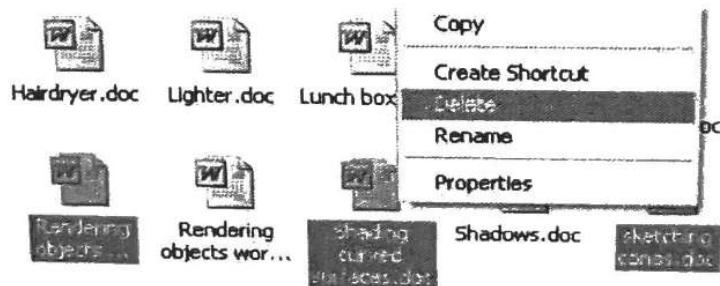
### Rename Files

Files must be renamed individually. To rename a file, right-click it and choose **Rename**. Type the new name and press **Return** or click away from the file.



### Deleting Files

- Select the files to be deleted. Right-click any selected file and choose delete from the menu. Click the **Yes button** in the dialog box.

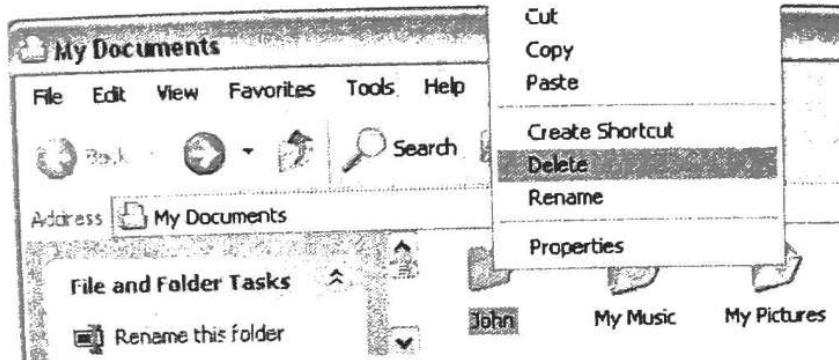


## The Recycle Bin

Files and folders deleted from the computer are placed in the recycle bin. They are not lost until the recycle bin is emptied.

### Activity 2.5: Managing the Recycle Bin

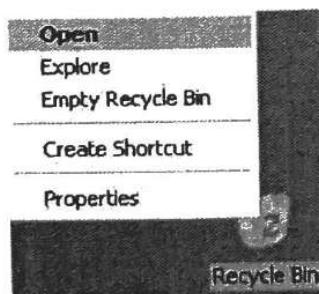
1. Delete a folder normally by right-clicking the folder and selecting **Delete**.



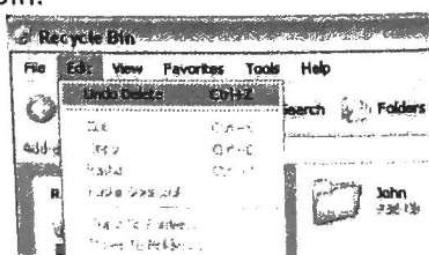
2. Check in the Recycle Bin to confirm if the folder/file has arrived.



3. To Undelete the folder, right-click the recycle bin and choose **Open**.



4. From the **Edit menu**, choose **Undo Delete** to restore the folder to its original location as it gets out of the recycle bin.



## SENIOR ONE

### Measurement of Storage Capacity

In a computer system, data is represented using the binary system; combinations of binary digits (bits). There are only two binary digits; 1 and 0. These digits can be arranged in such a way that they represent characters, digits and other values.

Data storage has various units including bits (b), Bytes (B), Kilobytes (KB), Megabytes (MB), Gigabytes (GB), and Terabytes (TB).

#### Activity 2.6: Data storage units

1. Distinguish between a bit and a byte.
2. What is the relationship between bits, bytes, kilobytes, megabytes, gigabytes and Terabytes? Give examples where necessary.

#### Activity of Integration

1. A researcher saved her draft work on a CD ROM from a friend's computer with an intention of sending it to her supervisor by e-mail once she got home. However, on reaching home, she realized that her computer could not read a CD ROM. How can you advise this researcher to have her work sent to the supervisor without physically going back to her friend?
2. A CD has a storage capacity of 700MB. How many CDs full of data can be stored on a hard disc of 40 GB?

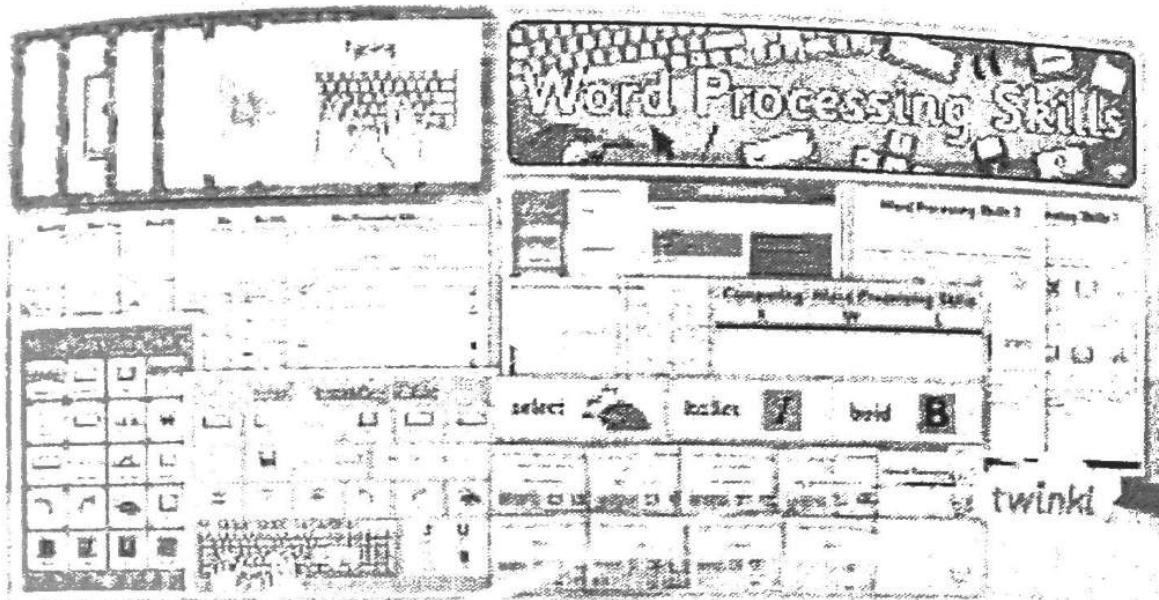
### Chapter Summary

In this chapter, you have learnt about:

- creating, saving and transferring files across various media.
- convert data storage into various units.

# Chapter 3

## Word Processing I



### Key Words

- word processing
- layout
- mail merge

After reading this chapter and practicing its activities, you will be able to:

- a) understand the word process or interface.
- b) use a word processing software to create, format, edit and print a document.

### Introduction

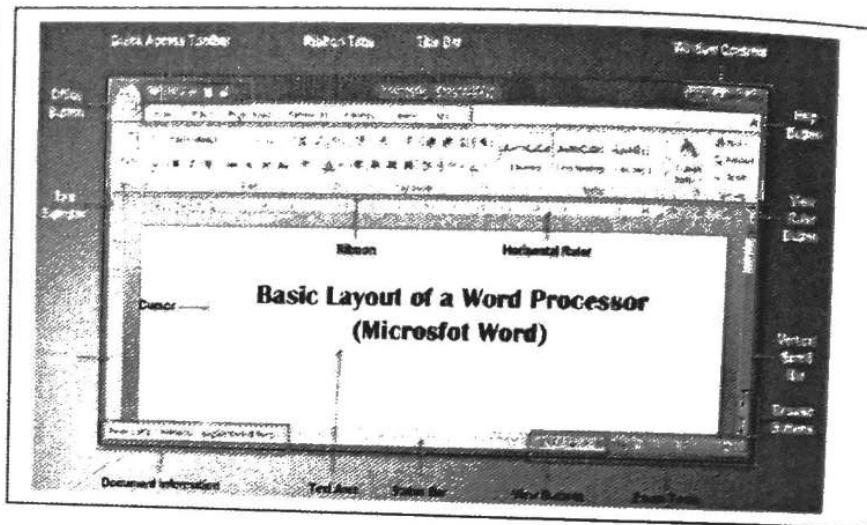
Word processing is a very important skill for you if you are aiming at becoming computer literate. Once you have learnt how to word process, you will be in position to use word processing software (e.g. MS Word) appropriately to create, edit and print documents.

There are specialized programs which you can use to word process. Such programs are called word processors. A word processor has numerous features whose uses you need to understand if you are to use it appropriately.

Microsoft Office Word is one of the most commonly used word processing softwares. Different versions of Microsoft Office Word include MS Word 2007, 2010, 2013 and 2016. In this book we are going to demonstrate using Microsoft Office Word 2007 Platform.

## Features of a Word Processor

The image on the right shows a window of a word processor with some features that enable a user to manipulate a document.



**Figure 4.1: MS Word processor window**

### Activity 3.1: Understanding the features of a word processor

In groups:

1. Open a word processor.
2. Identify the groups of the word processing features.
3. Type the sentence “I love my school”.
4. Select (highlight) the sentence in 3 above and click on any three features.
5. Observe the changes which occur in the text.
6. State the function of each of the features identified.

*Copy and complete the table shown below about the features of a word processor*

Feature Identified	Group it belongs to	Use of the feature in word processing

7. Share your findings on the word processing features and the group they belong to.

**Hint:** To open a Word Processor, go to Start → All Programs → MS Office → Word Processing program

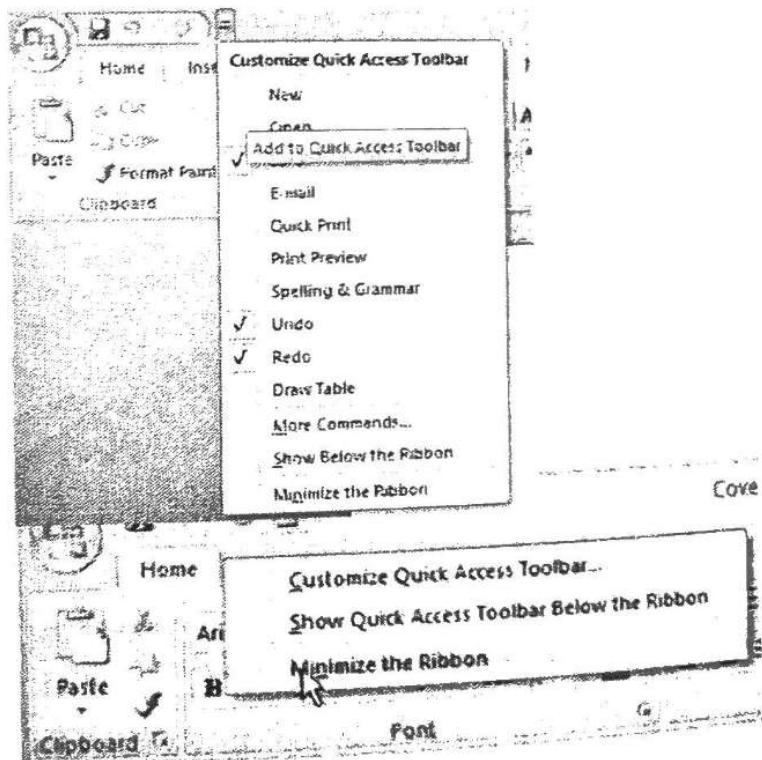
## Customizing Word Processing Working Environment

Before you begin creating documents, ensure that you have **set up your Word environment** and become familiar with a few **key tasks** such as minimizing and maximizing the ribbon, configuring the Quick Access toolbar, using the ruler, word counting and zooming tools.

### Activity 3.2: Setting a word processing environment

#### Customizing the Quick Access Toolbar

1. Click the **arrow** to the right of the Quick Access toolbar.
2. Select the **command** you want to add from the drop-down list. It will appear in the Quick Access toolbar.

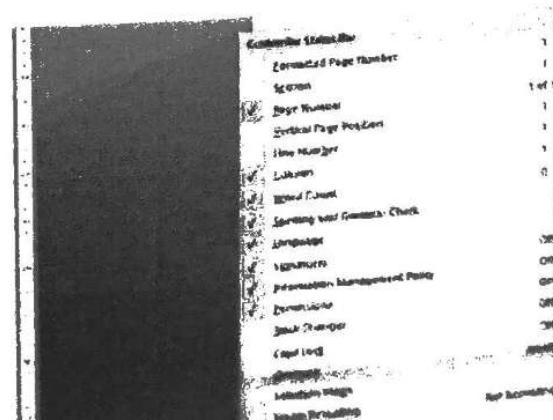


#### Minimising and Maximising the Ribbon

3. Right-click anywhere in the main menu.
4. Select **Minimize the Ribbon** in the menu that appears. This will **toggle** the Ribbon **on and off**.

#### Customising the task bar

5. Right-click anywhere on the task bar
6. Select the items you would like to appear on your task bar as you work from the popup menu.



## Saving an MS Word Document File

Saving is the process of storing a document in a certain location or creating a file. This can be done on a newly created document or on an already existing document. Saving is normally in two categories; **Save** and **Save As**.

When saving for the very first time, **Save** and **Save As** behave the same way. They both prompt for file name and location.

Click on the Office button>Save As>Type File Name>Choose Location>Save  
Otherwise, Save and Save As behave differently on an existing document.

### **Save**

This is a command used when saving changes made on an existing document without changing the file name and location.

### **Save As**

This is a command used when making a copy of the file in a different folder or making a copy with a different name.

Click on the Office button>Save As>Type File Name>Choose Location>Save

### **Activity 3.3: Saving a file**

Saving a document with file name **NCDC** in My Documents location:

1. Open MS Word program.
2. Select **Office Button > Save or Save As**
3. Select **Desktop** as the location to save in
4. Give the file a name, **NCDC**

**Tip:** Save your file immediately after creating it to prevent the possibility of losing it later due to power failure.

### **Activity 3.4: Working with text**

1. Type some text in your text area of about four paragraphs to help you practise word processing skills. Press **Enter key** on your keyboard to get to the next line.

#### **Selecting text**

2. Move your insertion point next to the text you want to select.
3. Left-click and while holding down, drag the mouse over the text you want to select.
4. Release the mouse button. You will have selected the text. A **highlighted box will appear** over the selected text.

#### **Inserting text anywhere in your text**

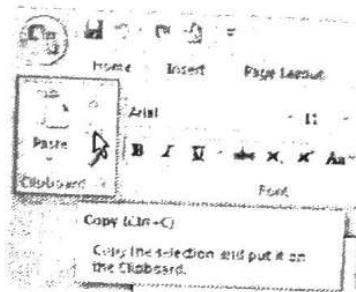
5. Move your mouse to the location where you want text to appear in the document.
6. Left-click the mouse. The **insertion point** appears.
7. Type the text you want to appear.

## Deleting text

8. Place your cursor next to the text you want to delete.
9. Press the **Backspace** key on your keyboard to delete text to the left of the cursor.
10. Press the **Delete** key on your keyboard to delete text to the right of the cursor.

## Copying and pasting text

11. Select the text you want to copy.
12. Click the **Copy** command on the Home tab.
13. Place the cursor where you want text to appear.
14. Click the **Paste** command on the Home tab.



**Tip:** **Highlight text before applying any formatting on it.**

## Activity 3.5: Practising text formatting

Your class is planning an end of year party at the end of the term scheduled to take place in the main hall on 21<sup>st</sup> November this year starting at 8:30am. Word process a letter inviting the head teacher and members of staff to the end of year party.

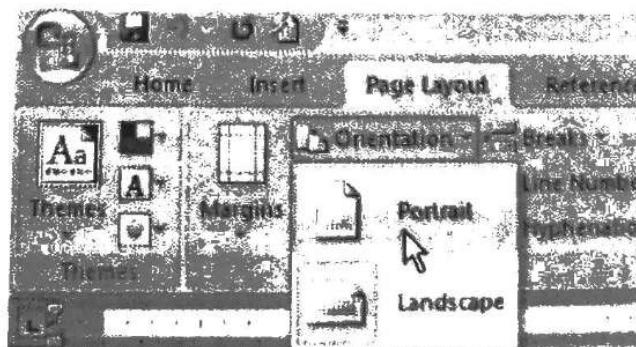
## Page layout

All along you have been using the default settings of your word processor. You are now going to learn how to change these settings to suite your document requirements. In the next set of activities you will learn how to change the margins, document orientation, use columns in your document as well as adjust the line spacing of text.

## Activity 3.6: Changing page orientation

Open a page with text on it.

1. Select the **Page Layout** tab.
2. Click the **Orientation** command in the Page Setup group.
3. Left-click either **Portrait** or **Landscape** to change the page orientation.



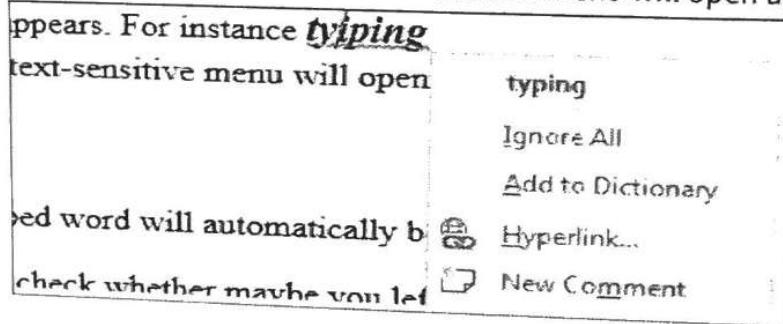
### Grammar and spell check

When you are typing, sometimes a wavy red or green line appears beneath your text. **Red** and **Green** wavy lines indicate **spelling** and **grammatical** errors respectively. Missing space after a comma or a period, or doubling of a word (the the), is also detected as a mistake. Below is an example of a spell checker in action.

When you are **tyiping**, sometimes a **waby** red or green line appears beneath your text. **Red** and **Green** wavy lines indicate **splling** and **grammatical** erors respectively. Note that a word processor also regards a missing space after a comma

### Activity 3.12: Text proof reading

1. Open a new document.
2. Mistype a word so that the wavy red line appears. For instance **tyiping**.
3. Right click on the underlined word. A context-sensitive menu will open up.



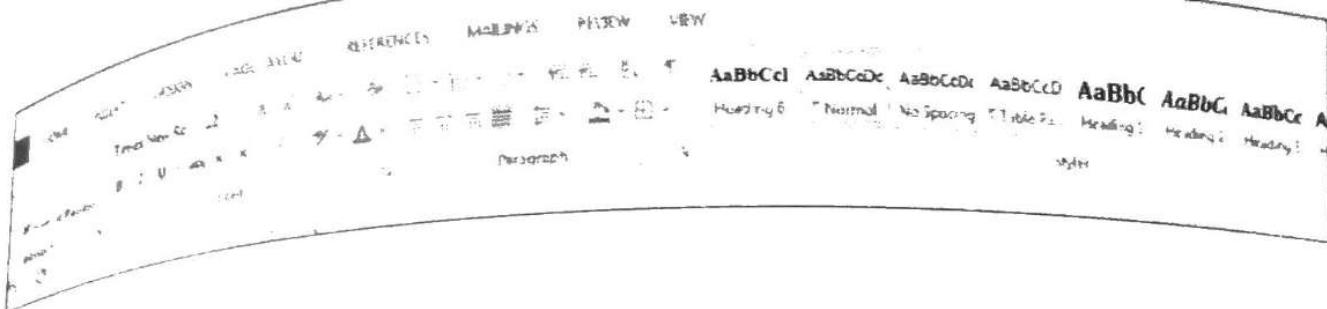
4. Click on the correct suggestion, the mistyped word will automatically be replaced.

In case Word does not make any suggestions, then check whether maybe you left out a space after a period or comma. Please note that there are many proper nouns and specialist terms that Word does not recognize.

**Tip:** A wavy red line does not always mean that you have made a mistake!

### Character formatting

Formatting is the art of making your documents effective and attractive. Good formatting distinguishes different parts of your text and helps your readers take in your message. Word processors provide a wide range of tools that can help you create professional looking documents. Characteristics that affect the appearance of one or more characters are called character formats. You can apply formatting to just about every element of your document, from a single character to entire paragraphs. The formatting ribbon below contains functions which can format characters, sections, and paragraphs.

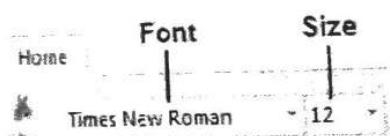


## Changing the font

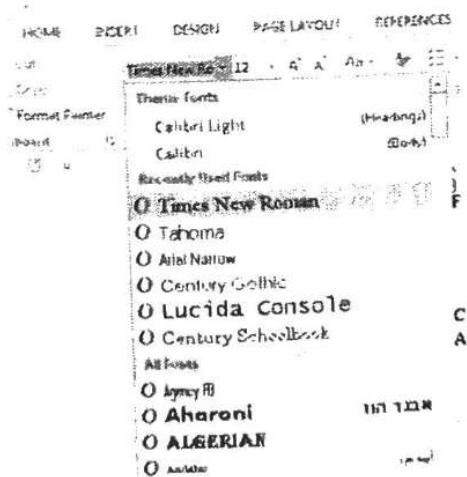
**Changing the font**  
Use the Font dialog box (Alt+H, FN) to format characters. Letters, numbers, and punctuation marks are all printable characters and, as such, you can format them. Once you select a character or a group of characters, you can apply any of the formatting commands on the Home tab's Font group (Alt+H). You can choose a font and a size for any character in your document. You can make characters bold, underlined, superscript, or change them to just about any colour of the rainbow.

### Activity 4.13: Character formatting

1. Select the text you want to format.
  2. Find the **Font** field on the Home ribbon.



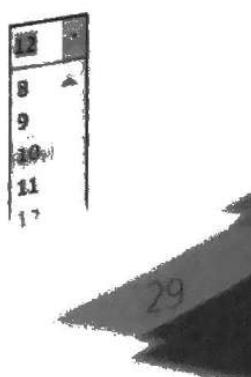
3. Click the drop-down arrow next to the **Font** field.
  4. A list with countless font choices appears as shown below.



5. Select the font you want by clicking its name.

You can also change the font size to your preference.

6. First select the relevant text.
  7. Find the **Font Size** field on the Home ribbon, and click the drop-down arrow next to it.



- On the list, find the font size that suits you and click it.

You can also format your text to be **bold**, *italic* or underlined.

**Tip:** You can also specify your own font size by clicking in the Font Size field and typing in the size that you want and then press ENTER.

#### Activity 3.14: Bolding, italicizing and underlining

- Select the relevant portion of your text.
- Click the appropriate character formatting button on the Home ribbon.

**B** - Bold

**I** - Italic

**U** - Underline

- The drop down arrow next to the underline button offers you a choice of underlining styles.
- To turn a character format off, select the text and click the same button again.

#### Alignment of Text

By default, paragraphs are usually left-aligned: the left margin is straight, but the right margin is jagged. Word provides you with a number of other options though. Just position your cursor anywhere in the paragraph, and click one of the text alignment buttons on the Home ribbon.



- Align left: text is aligned at the left margin but jagged on the right.
- Centre: text is centred within each line, with jagged margins on both left and right.
- Align right: Text is aligned at the right margin but jagged on the left.  
Justify: text is aligned at both the left and right margins (Word does this by adjusting the amount of space between words).

#### How to Create a Bulleted and Number List Using bullets

- First, type the points that you want to bullet, one under another. Make sure you create them as individual paragraphs by pressing [ENTER] after typing each point.
- Select the paragraphs that you would like to bullet.
- Click the **Bullets** button in the Paragraph section of the Home ribbon.

**Tip:** The drop-down arrow on the right of the Bullets button allows you to choose from different bullet styles.

### Creating a numbered list

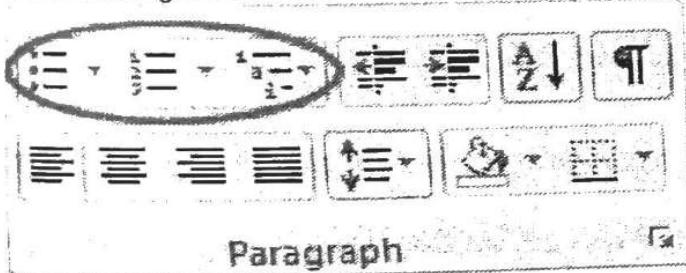
Instead of clicking the **Bullets** button, click the **Numbering** button just next to it. The best thing about Word numbering is that the numbers adjust themselves automatically when you edit the text!

**Tip:** To end a bulleted or numbered list, just press [ENTER] twice.

Change the Bullet/Number Style

Go to the drop down list bullet or number (figure below) and select an option.

Note: Adding a Numbered List follows similar steps

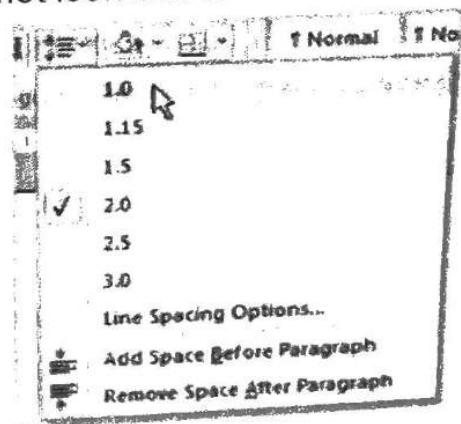


### Adjusting line spacing

When words are close together or sentences are compact, they can be difficult to read for some people. Depending on the font type used, it may not look nice to read. Therefore, word processors have line spacing provision to allow space adjustments between the lines.

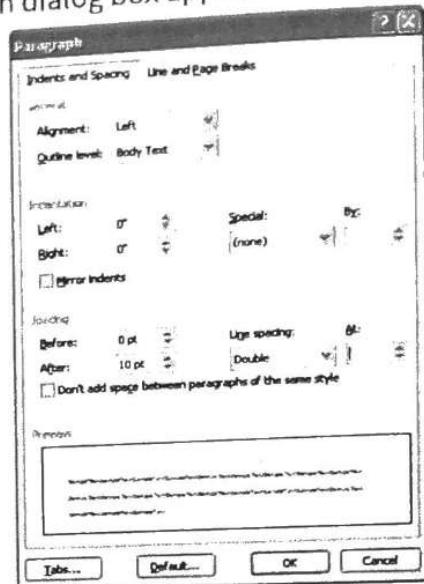
#### Activity 3.15: Working with line spacing

1. Select the text you want to format.
2. Click the **Line spacing** command in the Paragraph group on the Home tab.
3. Select a spacing option.



If you select **Line Spacing Options**, the Paragraph dialog box appears.

4. Use the **Line spacing** drop-down menu to select a spacing option.
5. Modify the **before** and **after** points to adjust line spacing as needed.
6. Click **OK**.



## Working with Objects

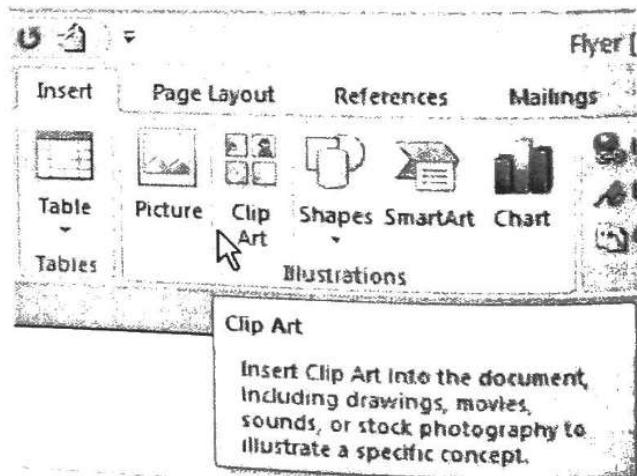
In the previous activities, you have been working with text only. In this section, you will add information to your text in form of objects. You will learn how to add images/pictures, tables, charts smart arts, screenshots and illustrations.

### Making use of Clip Art Objects

You might be asking yourself “what is clip art?” *Clip art* is a collection of pictures or images that can be imported into a document or another program. They are already part of your word processing software.

#### Activity 4.9: Working with Clip Art

1. Select the **Insert** tab.
2. Click the **Clip Art** command in the **Illustrations** group.
3. The clip art options appear in the **task pane** on the right.
4. Enter keywords in the **Search for:** field that are related to the image you want to insert.
5. Click the drop-down arrow next to the **Search in:** field.
6. Select **Everywhere** to ensure Word searches your computer and its online resources for an image that meets your criteria.
7. Click the drop-down arrow in the **Results should be:** field.
8. Deselect any media types you do not want to see. In this case we only wanted **Clip Arts**.



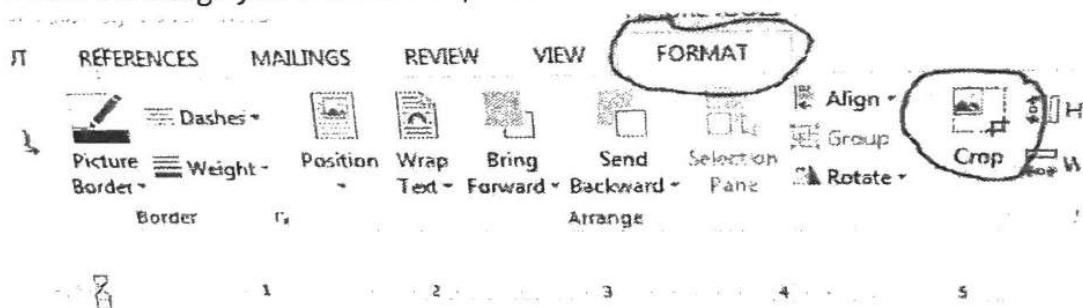
- Click **Go** to see a list of images depending on your search.
- Try to insert other object types (tables, pictures, charts, header/footer).

### Formatting Images/pictures

Most times, images inserted may need some adjustments to fit properly into spaces where they are inserted. This can be done in various ways including cropping and compressing the images. When you crop an image, part of it is removed. Cropping may be helpful when a picture has a lot of content and you want to focus on only part of it.

#### Activity 3.16: Cropping images

- Select the image you want to crop. The **Format tab** appears.



- On the **Format tab**, click the **Crop** command.
- Cropping handles** will appear around the image. Click, hold, and drag a **handle** to crop the image.
- Click the **Crop** command to deselect the crop tool.

**Note:** The mouse pointer appearance may vary from MS Word version to version.

### Compressing images

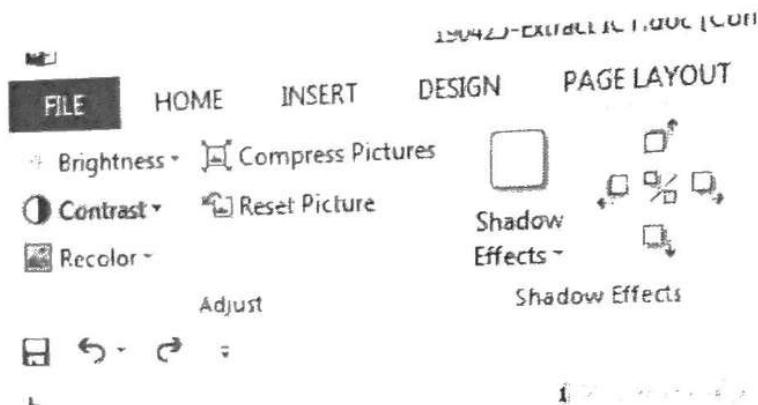
If you use large pictures in a document, its file size increases rapidly. As a result it may be difficult to share such a file via Internet. You can reduce this problem by telling a word processor to compress the pictures inserted in a document.

#### Activity 3.17: Compressing images

- Select the picture.
- Select the **Format tab**.



## SENIOR ONE



3. Click the **Compress Pictures** command in the Adjust group. A dialog box appears.
4. Click the **Options** button to access the **Compression Setting** dialog box.
5. Choose the target output.
6. Change any of the default picture settings you want.
7. Click **OK** in the Compression Settings dialog box.
8. Click **OK** in the Compress Pictures dialog box.

### Activity 3.18: Comparison of compressing and cropping

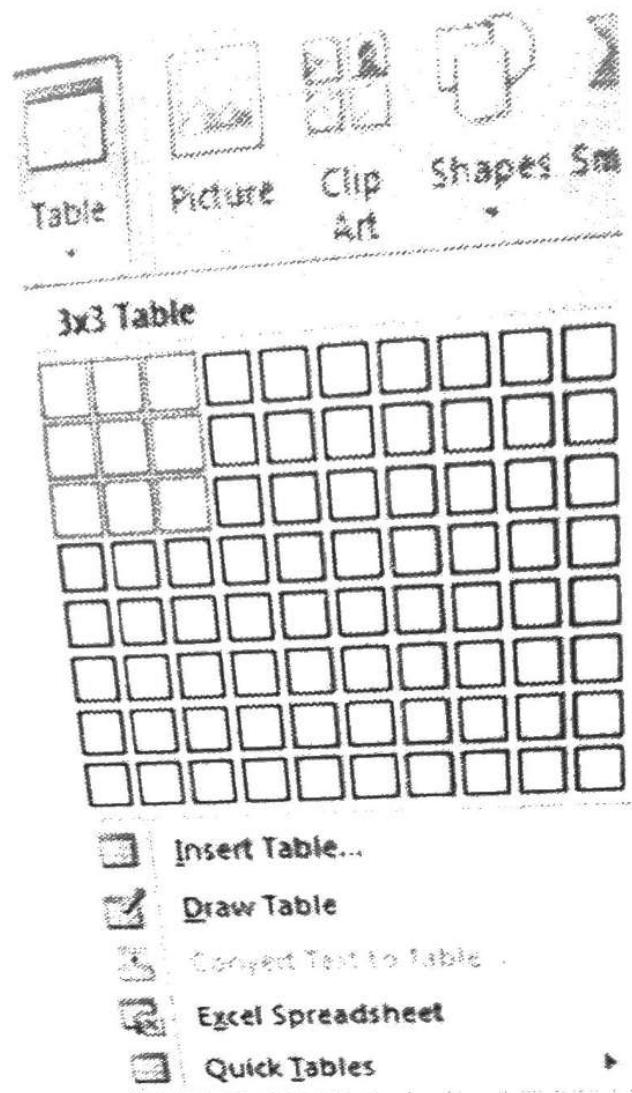
In groups, distinguish between cropping and compression in relation to images in a document.

### Working with Tables in a document

A table is made up of rows and columns. Tables are mainly used to organize and present information. You can also use tables to align numbers and create interesting page layouts.

### Activity 3.19: Inserting a table

1. Click where you want to insert the table.
2. Click the **Insert** tab and click on the **[Table]** button - a table grid and other options appear:



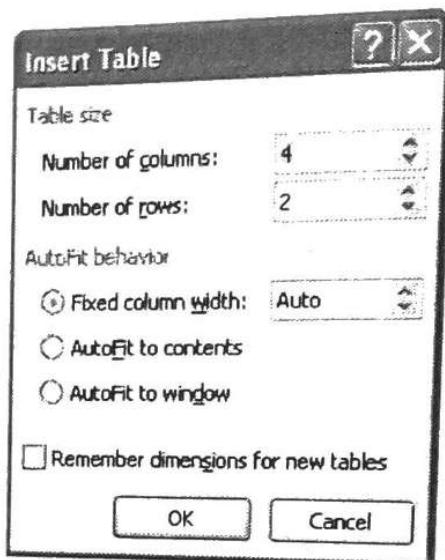
3. Create a **3 x 3 Table**. Drag the mouse cursor over the cells and click the mouse button when the table is of the desired size (if you hold down the mouse button, the table is drawn when you release it).

**Tip:** You do not have to set up the number of rows required when you first create a table as Word will automatically add extra rows for you as you type.

4. To move out of the table, press **<Ctrl End>** or use the **<down arrow>** key several times - the Table Tools tabs disappear, showing that you are no longer in the table
5. Press **<Enter>** for a blank line

#### **Inserting a table by setting the number of Rows and Columns**

1. Position the **Insertion Point** where the table is required.
2. Click on the **[Table]** button (on the **Insert** tab) and choose **Insert Table...** command.
3. The **Insert Table** dialog box appears - under **Table size**, enter the **Number of columns:** and **Number of rows:** required (here, set up 4 columns and 2 rows).



The next set of options down, *Autofit behaviour*, determine how the column widths are defined. By default, column widths are set so that the table fills the page horizontally with equally-sized columns (as you saw with the first table). If you require specific widths (of an equal size) change *Fixed column width*: from *Auto* to the desired size.

4. Here, change *Autofit behaviour* to **AutoFit to contents**
5. Press <Enter> or [OK] and a very small skeleton table appears

### **Activity of Integration: Word processing a letter**

Your class is planning an end of year party at the end of the term scheduled to take place in the main hall on 21<sup>st</sup> November this year starting at 8:30am. Word process a letter inviting the head teacher and members of staff to the end of year party. Include various objects, styles and colours to make your letter more appealing.

### **Chapter Summary**

In this chapter, you have learnt about:

- How to load word processing Application Software.
- Format a word document (page orientation, margins, size, fonts, paragraphing, etc.).
- Insert objects in a word document (tables, images, shapes, header and footer).
- Print documents.



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