

NEW ORDINARY LEVEL

INFORMATION &

COMMUNICATIONS

TECHNOLOGY

RESEARCH BOOK

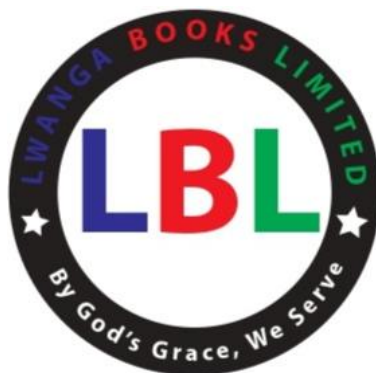
(DETAILED)

SENIOR ONE TO SENIOR FOUR

“LEARNER’S RESEARCH BOOK”

BASED ON THE NEW LOWER SECONDARY CURRICULUM

By





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Preface

This learner's research book has been written in line with the revised information & communications technology (ICT) syllabus for the new lower secondary curriculum.

The main reason as to why We have written this book, is to make research easier to learners as they are making their own notes in ICT. Therefore, this is a detailed research book for the new revised ICT ordinary level syllabus.

This research book has been written in a Simplified way to help students read and understand the competence based ICT on individual basis as they are coming up with their own notes.

Therefore, learners understand key concepts and apply them in real life.

This learner's research book is one of the materials which are to be used to support the teaching and learning process of the new lower secondary curriculum.

Lwanga Books Ltd feels confident that this Book will be of immense value to both the learners and the teachers.

Any suggestions for improvement of this book are most welcomed, thanks.

“It is not what We do for you but what We will teach you to do for and by yourselves that will eventually make you successful beings in the society”

Acknowledgement

Lwanga Books Limited is deeply indebted to all those who participated in the development of **Lwanga William S1-S4 ICT Learner's Research Book**.

Special thanks go to **Mr. Lwanga William**, CEO of Lwanga Books Ltd for his valuable insights and advice on all publishing matters.

We would like to express our sincere appreciation to all those who worked tirelessly towards the production of this learner's research book.

First and foremost, we would like to thank our families and friends for supporting all our initiatives both financially and spiritually, Lwanga William's parents; **Mr. William Lwanga** and **Mrs. Harriet Lwanga**, his brother; Mr. Nsubuga Grace.

The initiative and guidance of the publishing partners, Ministry of Education and Sports (MoES) and National Curriculum Development Centre (NCDC) in development and implementation of the New Lower Secondary Curriculum are highly appreciated.

We thank God for the wisdom He has given us to produce this volume of work. May the Almighty God bless all the students that will use this book with knowledge of making their own notes as they are making research.....**AMEN**. We welcome any suggestions for improvement to continue making our service delivery better.

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Introduction To Information & communications Technology

ICT stands for information and communications technology

Information and Communications Technology. (ICT) refers to the combination of telecommunication and computing technologies to enhance communication.

MAJOR KEYWORDS

SOFTWARE

Refers to the logical instructions that tell computer hardware what to do and how to do it
Or

Is a series of logical instructions that govern computer operations.

HARDWARE

Refers to the physical components of computer that can be seen. E.g. keyboard, printer, mouse etc.

PERIPHERALS

These are hardware components that are externally connected to the system unit. E.g. keyboard, scanner, monitor etc.

COMMON ICT TOOLS

There is a variety of tools used in ICT and these include the following

Radios

Used for listening to news, adverts, music and developmental programs aired on different radio stations

Televisions

Used for watching news, political programs, entertainment programs among others.

Computers

Used for typing documents, watching movies, accessing internet etc.

Cameras

Used for capturing images and some for recording motion pictures. (Videos)

Projectors

Used to cast images on a big wall viewing by bigger audience

Scanners

Used for turning soft copies into hardcopies.

N.B

Softcopy is information visually displayed on the screen or in audio form or sound while **hardcopy** is information in print out form.

Threats to ICT tools

1. Hardware vandalism
2. Hardware theft
3. Short circuiting
4. Fire outbreaks
5. Natural disasters like floods, earthquakes
6. Computer virus infection

General measures taken to ensure safety of computers are safe

1. The tools should be properly switched on or off
2. Avoid illegal connections and disconnections
3. Avoid exposing tools to heat/direct sunlight
4. Foods and drinks should not be put close to ICT tools as they can easily damage them
5. Keep the tools in a dust free environment
6. The repairs should be done by technical persons
7. Computers should be connected to the UPS or stabilizer
8. Keep fire extinguishers to guard against fires
9. Tools should be allowed to cool down before covering them
10. Lock the laboratory after use of tools
11. Use burglar proofing
12. Install and update antivirus
13. Have usernames and passwords to access some tools like computers
14. Setup lightening arrestors to guard against thunder
15. Use firm tables to hold the weight of hardware

INFORMATION PROCESSING CYCLE

The **information processing cycle** (IPC) refers to the series of input, process, storage and output activities of a computer.

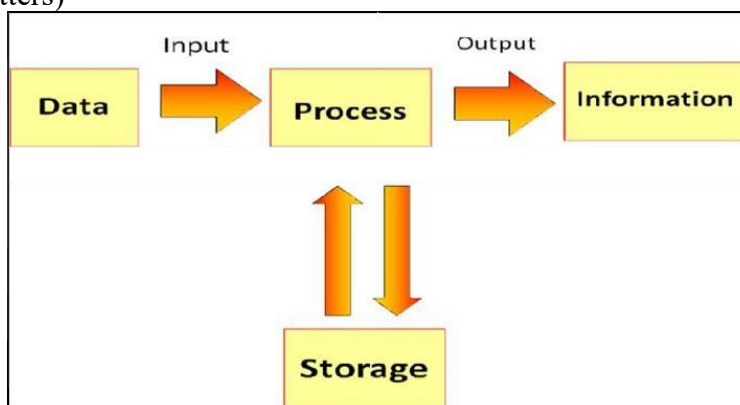
Stages of the information processing cycle

Input of data: Involves entering data into the processing system. (Keyboard, mouse)

Processing of data: Involves calculating or manipulating the input data (central processing unit and memory)

Storing data: Data is kept after processing for future use. (Hard disks, flash disks, CDs)

Output of data: Involves giving out the processed results in a given form. (Printers, monitors and plotters)



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