| | | | | COMPUTER FO | DRM 1 SCHEMES OF WORK – | TERM 1 | | |
|----------|----------------|-------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| WE EK | LES SO N | ТОРІС | SUB-TOPIC | LEARNING OBJECTIVES | TEACHING/LEARNING ACTIVITIES | TEACHING/LEARNING RESOURCES | REFERENCES | REMARKS |
| 1 | 1 | | DEFINITION OF A COMPUTER | By the end of the lesson, the learner should be able to Define computer Distinguish between data and information Explain unique characteristics of computer as a data processing tool | Learner to: Through questions and answer define computer Through brainstorming distinguish between data and information Through group discussion, discuss characteristics of a computer as data processing tools | A calculator A personal Computer Charts Sample data | Lomghorn Secondary. S.Mburu, G. Chemwa page 1- 2 Computer studies Dr. Onunga and Renu Shah Page 1-2 | |
| | 2-3 | | PHYSICAL PARTS OF A COMPUTER | By the end of the lesson, the learner should be able to • State and explain various physical parts of a computer | Through question and answer list parts of a Computer Through brainstorming, explain various parts of a computer | A working personal computer | Gateway secondary Revision S.Mburu G. Chemwa pg 1 Foundations of Computer studies by Pepela pg 3 | |
| 2 | 1 | | CLASSIFICATION OF COMPUTERS | By the end of the lesson, the learner should be able to Classify computer according to physical size | Learner to ● In group of two identify and discuss pictures from books, magazines | Charts or photographs from books, magazines or newspapers | Gateway secondary Revision S.Mburu G. Chemwa pg 7-8 | |
| | 2-3 | | CLASSIFICATION OF COMPUTERS | Classify computer according to functionality and according to purpose | DiscussionQ/A | Charts or photographs from books, magazines or newspapers | Onunga and Renu Shah Page6 | |

| 3 | 1 | DEVELOPMENT OF COMPUTERS | By the end of the lesson, the learner should be able to • Explain how computers have developed | Through brainstorming identify and discuss non-electronic tools | Charts or photographs from books, magazines or newspapers | Lomghorn Secondary. S.Mburu, G. Chemwa page 10 |
|---|-----|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2-3 | ELECTRONIC COMPUTERS | List five generations computers | In group of three, discuss five generation computers | Charts or photographs from books, magazines or newspapers | Lomghorn Secondary. S.Mburu, G. Chemwa page 12-13 Foundations of Computer studies by Pepela pg 22 |
| 4 | 1 | AREAS WHERE COMPUTER ARE USED | By the end of the lesson, the learner should be able to Identify areas where computers are used Describe the listed areas where computers are used | Learner to Through brainstorming identify and discuss areas where computers are used | • Flash Cards | Lomghorn Secondary. S.Mburu, G. Chemwa page 14-15 |
| | 2-3 | THE COMPUTER LABORATORY MEASURES THAT PROTECT COMPUTER | Define computer laboratory Describe the safety precautions and practices that protect computer | Through question and answer define computer laboratory In group of three, discuss safety precautions and practices that protect computer | UPS,Surge protectorcharts | Foundations of Computer studies by Pepela pg 47 |
| 5 | 1 | MEASURES THAT PROTECT USER | Describe the safety precautions and practices that protect user | In group of three, discuss safety precautions practices that protect user | Antiglare standard furniture | |
| | 2-3 | PRACTICAL | By the end of the lesson, | Through | • Computer | Gateway |

| | | HAN | the least to | Start up a computer Restart a computer Shutting down computer | | demonstration by the teacher, learner to observe and imitate on how to start up a computer, restart a computer and shut down computer | | | | Secondary Revision, S.Mburu G.Chemwa pg 21-23 | |
|---|-----|-------|-----------------|---------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------|---|----------------------------------------------------------------|--|
| 6 | 1 | MOU | | end of the lesson, rner should be able Define keyboard Identify parts of the Keyboard | Learner • | to Through brainstorming define keyboard and identify parts of the Keyboard | • | Computer keyboard Mobile keyboard | • | Gateway Secondary Revision, S.Mburu G.Chemwa pg 22 | |
| | 2-3 | KEYB | BOARD SKILLS • | Discuss parts of the keyboard Type using keyboard | • | In group of three, discuss parts of the keyboard and type using keyboard | • | charts | • | Foundations of Computer studies by Pepela pg 25 | |
| 7 | 1 | ТҮРІІ | NG TUTOR • | Identify typing tutors Use typing tutors | • | Through question and answer identify typing tutors and use typing tutors | • | Typing tutor software computer | | | |
| | 2-3 | MOL | USE SKILLS • | Define computer mouse Identify parts of the mouse | • | Through brainstorming define computer mouse and identify parts of the mouse | • | Computer mouse | • | Lomghorn Secondary. S.Mburu, G. Chemwa page 23 | |
| 8 | 1 | MOL | | end of the lesson, rner should be able Describe parts of mouse Use mouse techniques | • | In group of three, discuss parts of the mouse | • | Computer mouse | • | Foundations of Computer studies by Pepela pg 23-25 | |
| | 2-3 | MOL | USE SKILLS • | Drag and drop items Open file and folders through double clicking, right clicking | • | Through demonstration by the teacher, learner to observe and imitate on how to drag and drop items | • | Computer mouse | • | Foundations of Computer studies by Pepela pg 23-25 | |

| | | COMPUTER SYSTEMS | | COMPUTER SYSTEM | | |
|------------|----------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| • | 1 | INPUT DEVICES (KEYING DEVICES | By the end of the lesson, the learner should be able to • Describe computer system • Define input devices | Learner to Through brainstorming describe computer system define input devices | Computer systemPDA's | Longhorn Secondary. S.Mburu, G. Chemwa page 30-31 |
| | 2-3 | INPUT DEVICES (KEYING DEVICES) | List keying devicesDescribe keying devices | Through questions and answer, list keying devices, describe keying devices | Computer KeyboardPDA's Keypad | Foundations of Computer studies by Pepela pg 68 |
| 10 | 1 | POINTING DEVICES | Define pointing devices List pointing devices Describe the listed pointing devices | Through question and answer define scanning device In group of three, describe the listed pointing devices | MouseJoystickLight pen | Gateway Secondary Revision, S.Mburu G.Chemwa pg 30-34 |
| | 2-3 | SCANNING DEVICES | Define scanning devices List scanning devices Describe scanning devices | Through question and answer define scanning device In group of three, describe the listed scanning device | Pictures from books and Magazines | Foundations of Computer studies by Pepela pg 70 |
| l 1 | END TERM 1 EXA | AM | 5011000 | | | |
| 12 | REVISION | | | | | |

| | COMPUTER FORM 1 SCHEMES OF WORK – TERM 2 COMPUTER SYSTEMS (cont) | | | | | | | | | |
|----------|-------------------------------------------------------------------|-------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|--|
| WE EK | LES SO N | TOPIC | SUB - TOPIC | OBJECTIVES | OMPUTER SYSTEMS (cont) LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS | | |
| 1 | 1 | | COMPUTER SYSTEMS DIGITIZERS SPEECH RECOGNITION DEVICES | By the end of the lesson, the learner should be able to Define digitizer List other input technologies Describe the listed input technologies | Learner to: Through question and answer define digitizer Through brainstorming to list other input technologies Through group discussion, discuss the listed input technologies | Pictures from books and newspapers PDA's | Lomghorn Secondary. S.Mburu, G. Chemwa page 37-38 Foundations of Computer studies by Pepela pg 76 | | | |
| | 2-3 | | CENTRAL PROCESSING UNIT | By the end of the lesson, the learner should be able to Define term CPU List functional elements of CPU | Through questions and answer define the term CPU Through brainstorming, list and illustrate the functional elements of CPU | A working personal computer | Gateway Secondary Revision, S.Mburu G.Chemwa pg 40 Foundations of Computer studies by Pepela pg 77 | | | |
| 2 | 1 | | CONTROL UNIT AND ARITHMETIC LOGIC UNIT | Describe the control Unit and Arithmetic Logic Unit | Through brainstorming, describe the Control Unit and Arithmetic Logic Unit | Charts | Longhorn Secondary. S.Mburu, G. Chemwa page 41-42 | | | |
| | 2-3 | | MAIN MEMORY | By the end of the lesson, the learner should be able to Classify computer memories List examples of primary memory and secondary memory State characteristics of | Learner to: Through question and answer classify computer memories Trough brainstorming list examples of primary memory and secondary memory Through questions and answer state | Pictures from books RAM module | • Gateway Secondary Revision, S.Mburu G.Chemwa pg 41-43 | | | |

| | | | RAM and ROM | characteristics of RAM and ROM | | | |
|---|-----|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| 3 | 1 | SPECIAL PURPOSE MEMORIES | Define special purpose memory List special purpose memories Describe Cache memory and Buffers | Through question and answer define special purpose memory and list special purpose memories Through brainstorming describe Cache memory and Buffers | Input/output devices microprocessor | Foundations of Computer studies by Pepela pg 77 | |
| | 2-3 | SPECIAL PURPOSE MEMORIES | Define registers List types of registers Describe the listed types of registers | Through question and answer define registers and list types of registers In group of five, discuss the listed types of registers | • Chart | Longhorn Secondary. S.Mburu, G. Chemwa page 44-45 | |
| 4 | 1 | MEMORY CAPACITY | By the end of the lesson, the learner should be able to Define byte Express memory quantities Calculate memory quantities | Learner to: Through questions and answer define byte Through teachers demonstration, express memory quantities and calculate memory quantities | RAM moduleFlash cards | Foundations of Computer studies by Pepela pg 79-80 | |
| | 2-3 | OVERALL FUNCTIONAL ORGANIZATION OF THE CPU | Define computer bus List types of computer buses Describe the listed computer buses Give an illustration of the overall functional organization of the CPU | Through brainstorming, define computer bus In group of five, discuss the listed types of computer buses Through group discussion, illustrate the overall functional organization of the | Schematic diagram from the book | • Gateway Secondary Revision, S.Mburu G.Chemwa pg 48 | |

| | | | | СРИ | | |
|---|-----|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | 1 | TYPES OF PROCESSORS | Classify processors Discuss the listed processor classifications | Through question and answer Classify processors Through group discussion, discuss the listed processor classification | ● Photograph | Gateway Secondary Revision, S.Mburu G.Chemwa pg 48 |
| | 2-3 | TRENDS IN PROCESSORS TECHNOLOGY AND SPEED | List processors Type Manufactures Year and speed | Through question and answer, list processors Type, manufactures, year and speed | ● Photograph | Longhorn Secondary. S.Mburu, G. Chemwa page 44-47 |
| 6 | 1 | OUTPUT DEVICES | By the end of the lesson, the learner should be able to Define output device Classify output devices List softcopy output devices Describe monitor as a soft copy output device | Learner to: (a) Through question and answer define output device and classify output devices (b) Through group discussion, discuss the listed softcopy output devices | CRT,LCD, TFT monitors Speakers LED | Gateway Secondary Revision, S.Mburu G.Chemwa pg 51-60 Foundations of Computer studies by Pepela pg 80 |
| | 2-3 | MONITOR DISPLAY TERMINOLOGIES AND VIDEO GRAPHIC ADAPTERS | Define the terminologies used in monitor List and describe the video graphic adapters | Through question and answer define terminologies Through group discussion, describe the listed video graphic adapters | Photograph from books | Longhorn Secondary. S.Mburu, G. Chemwa page 49-52 |
| 7 | 1 | HARDCOPY OUTPUT DEVICES | Describe hard copy output devices | Through group discussion, describe hard copy output devices | Printers Pictures from magazines Newspapers | Foundations of Computer studies by Pepela pg 81 |
| | 2-3 | HARD COPY OUTPUT DEVICES | List factors to consider when | Through question and answer list | Printers | Longhorn Secondary. |

| | | | purchasing a printer | factors to consider when purchasing a printer | Pictures from magazinesNewspapers | S.Mburu, G. Chemwa page 53 | |
|----|-----|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|
| 8 | 1 | SECONDARY STORAGE DEVICES AND MEDIA | List secondary storage media Describe removable storage device | Through question and answer list secondary storage media Through group discussion, describe removable storage device | Flash disc Floppy Diskettes Memory sticks Compact disk Hard disk | Gateway Secondary Revision, S.Mburu G.Chemwa pg 61-69 | |
| | 2-3 | SECONDARY STORAGE DEVICES AND MEDIA | By the end of the lesson, the learner should be able to Discuss fixed storage device | Through brainstorming, discuss fixed storage device | Flash disc Floppy Diskettes Memory sticks Compact disk Hard disk | Foundations of Computer studies by Pepela pg 101 | |
| 9 | 1 | POWER SUPPLY AND PERIPHERAL DEVICE INTERFACING | Distinguish between power and interface cables Describe power cables | Through question and answer, distinguish between and interface cables | Computer power cablesInterface cables | Longhorn Secondary. S.Mburu, G. Chemwa page 65-67 | |
| | 2-3 | POWER SUPPLY AND PERIPHERAL DEVICE INTERFACING | Describe interfacing cables | Through discussion, describe interfacing cables | Computer power cablesInterface cables | Longhorn Secondary. S.Mburu, G. Chemwa page 65-67 | |
| 10 | 1 | BASIC COMPUTER SET-UP AND CABLING | By the end of the lesson, the learner should be able to • Explain basic computer setup and cabling | Through teachers demonstration, explain basic computer setup and cabling | Computer power cablesInterface cables | Foundations of Computer studies by Pepela pg 101 | |
| | 2-3 | un | Mount hard drives and optical drives | Through teachers demonstration, mount hard drives and optical drives | • Computer | Foundations of Computer studies by Pepela pg 101 | |

| 11 | 1 | COMPUTER SOFTWARE | By the end of the lesson, the learner should be able to • Distinguish between system software and application software | Through question and answer, distinguish between system software and application software | Computer software's | • Longhorn Secondary. S.Mburu, G. Chemwa page 73-76 |
|----|-----|----------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------|
| | 2-3 | COMPUTER SOFTWARE | Classify software according to purpose | Through brainstorming, classify software according to purpose | Computer software's | Foundations of Computer studies by Pepela pg 143- 144 |
| 12 | 1 | COMPUTER SOFTWARE | Classify software according to acquisition | Through brainstorming, classify software according to acquisition | Computer software's | Foundations of Computer studies by Pepela pg 143- 144 |
| | 2-3 | COMPUTER SOFTWARE | Classify software according to end user- License Evaluate criteria for selecting computer system | Through brainstorming, classify software according to user-License Through question and answer, Evaluate criteria for selecting computer system | Computer software's | • Foundations of Computer studies by Pepela pg 143-144 |

| WE EK | LES SO N | TOPIC | SUB - TOPIC | OBJECTIVES | LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS |
|----------|----------------|-------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1 | 1 | | DEFINITION OF AN OPERATING SYSTEM | By the end of the lesson, the learner should be able to • Illustrate an operating system as a supervisor of hardware and application software | Learner to • Identify operating system used by the computer | Chartscomputer | Longhorn Secondary. S.Mburu, G. Chemwa page 82 Foundations of Computer studies by Pepela pg 155 | |
| | 2-3 | | | Identify parts of operating system | Through brainstorming describe parts of the operating system | Chartscomputer | Longhorn Secondary. S.Mburu, G. Chemwa page 82 Foundations of Computer studies by Pepela pg 155 | |
| 2 | 1 | | FUNCTION OF AN OPERATING SYSTEM | By the end of the lesson, the learner should be able to • List devices under the operating system | Through questions and answers, list devices under control of operating system | • Flash Cards | Longhorn Secondary. S.Mburu, G. Chemwa page 83-85 | |
| | 2-3 | | DEVICES UNDER THE OPERATING SYSTEM CONTROL | State functions of an operating system in resource management | Through brainstorming, state functions of operating system | ComputerOperating systemsoftware | Gateway Secondary Revision, S.Mburu G.Chemwa pg 87 | |
| 3 | 1 | | TYPES OF OPERATING SYSTEM | By the end of the lesson, the learner should be able to • List types of operating system | Learner to (a) List and describe types of operating system | PC's loaded with different operating systems, pupils book part 3,4 | Longhorn Secondary. S.Mburu, G. Chemwa page 83-85 | |
| | 2-3 | | | Describe: • Single program | (a) Draw a summary diagram of various | PC's loaded with different | Foundations of Computer | |

| | | | | and multitasking operating system | operating system types | operating systems, pupils book part 3,4 | studies by Pepela pg 170 |
|---|-----|-----|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 4 | 1 | | | Multi- user and single user operating system | Draw a summary diagram of various operating system types | • Chart | Foundations of Computer studies by Pepela pg 170 |
| | 2-3 | | | Command line, menu driven and graphical user interface operating system | Draw a summary diagram of various operating system types | • Chart | Gateway Secondary Revision, S.Mburu G.Chemwa pg 90-91 |
| 5 | 1 | SYS | OW OPERATING STEM ORGANIZE FORMATION | By the end of the lesson, the learner should be able to • State and explain factors that dictate file organization | Identify features on windows desktop | PC loaded with any version of windows | Longhorn Secondary. S.Mburu, G. Chemwa page 89-94 |
| | 2-3 | | | Describe files, folders and drives Start Microsoft windows | Identify features on windows desktop | PC loaded with any version of windows | Longhorn Secondary. S.Mburu, G. Chemwa page 89-94 |
| 6 | 1 | | ANAGING FILE ND FOLDERS | By the end of the lesson, the learner should be able to • Distinguish between folder and directory • Draw directory (folder) tree | • Create folder in both Graphical user interface and MS-DOS | • Flash cards | Longhorn Secondary. S.Mburu, G. Chemwa page 95-97 |
| | 2-3 | | ANAGING FILE ND FOLDERS | Create ne files and folders Identify parts of an application window | | • Flash cards | Longhorn Secondary. S.Mburu, G. Chemwa page 95-97 |
| 7 | 1 | | | Save changes to a | Learner to | Personal | • Longhorn |

| | | | | file Rename files or folders Copy, move, sort files and folders | Save changes to a file, rename files and folders | computer loaded with any version of windows | Secondary. S.Mburu, G. Chemwa page 95-97 |
|----|-----|----------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| | 2-3 | | | Manipulate files and folders using Short cut menu, drag and drop Selecting multiple files and folders Searching for files and folders | In group of two, manipulate files and folders using Shortcut menu, drag and drop Selecting multiple files and folders Searching for files and folders | Personal computer loaded with any version of windows | Longhorn Secondary. S.Mburu, G. Chemwa page 90 |
| 8 | 1 | M | ISK IANAGEMENT SING WINDOWS | By the end of the lesson, the learner should be able to | Learner to: In group of three Format disk Back-up data | Personal computer loaded with any version of windows | Longhorn Secondary. S.Mburu, G. Chemwa page 106-113 |
| | 2-3 | | | scan problems related to diskdefragment a disk | In group of three use scan disk to detect disk errors defragment a disk | floppy disketteflash disk | Longhorn Secondary. S.Mburu, G. Chemwa page 106-113 |
| 9 | 1 | | | Compress files within a disk Scan a disk for virus | In a group of three ■ Compress a disk | floppy disketteflash disk | Longhorn Secondary. S.Mburu, G. Chemwa page 106-113 |
| | 2-3 | | | Create/restore back-up data Create startup disk Partition a disk | In group of three ● Partition a disk | Un partitionHard disk | Longhorn Secondary. S.Mburu, G. Chemwa page 106-113 |
| 10 | 1 | At CC OI | NSTALLATION ND ONFIGURING AN PERATING YSTEM | By the end of the lesson, the learner should be able to • Know installation requirements | Learner to List installation requirement Describe the listed installation requirements | Personal computer without an operating system | Longhorn Secondary. S.Mburu, G. Chemwa page 114-117 |

| 2-3 • Install operating system | With the help of the teacher install operating system | Installation and start up diskManufactures documentations | Foundations of Computer studies by Pepela pg 170 | |
|---------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|
|---------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--|

| | | | | | ORM 2 SCHEMES OF WORK — | | | |
|----------|----------------|----------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------|
| WE EK | LES SO N | ТОРІС | SUB - TOPIC | OBJECTIVES | DN PACKAGES (WORD PROCESS LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS |
| L | | Reporting from | home and settling for | first term work | | | | |
| 2 | 1 | | DEFINITION OF WORD PROCESSOR | By the end of the lesson, the learner should be able to • Define the term word processor • Explain the purpose of a word processor | Q/A discussion | NewspapersLettersCardsbooks | Longhorn Secondary. S.Mburu, G. Chemwa page 1- 3 | |
| | 2-3 | | USING A WORD PROCESSING PACKAGE | By the end of the lesson, the learner should be able to • Start a Microsoft word • Explain the Microsoft screen layout | Q/A demonstration practical | Handouts Books Working personal computer | Longhorn Secondary. S.Mburu, G. Chemwa page 5- 10 | |
| 3 | 1 | | RUNNING THE PROGRAMME | By the end of the lesson, the learner should be able to Save and retrieve Close and exit | Q/A demonstration practical | BooksHandoutsWorking computer | Longhorn Secondary. S.Mburu, G. Chemwa page 13-17 | |
| | 2-3 | | EDITING AND | By the end of the lesson, | | | | |

| | | FORMATTING A DOCUMENT | the learner should be able to • Select a document • Move, copy and delete • Insert and type over | Q/A demonstration practical | HandoutsBooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 16-19 |
|---|-----|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | 1 | FIND AND REPLACE | By the end of the lesson, the leaner should be able to Define the term find and replace Find and replace a documents Use thesaurus | Q/A Demonstration practical | LettersCard working computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 16-24 |
| | 2-3 | TEXT FORMATTING | By the end of the lesson, the learner should be able to • Bold, italicize, underline, change fonts | Q/A Demonstration practical | LettersCardsWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 22-23 |
| 5 | 1 | PARAGRAPH FORMATTING | By the end of the lesson, the learner should be able to | Q/A demonstration practical | HandoutsCardsWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 22-23 |
| | 2-3 | PARAGRAPH FORMATTING | By the end of the lesson, the learner should be able to • Space and section break • Bullet and number • Insert columns/page headers and footers | Q/A demonstration practical | Books Newspapers Working computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 22-23 |

| 6 | 1 | SET-UP | By the end of the lesson, the learner should be able to Set up margins Set paper size and orientation | Q/A demonstration practical | HandoutsWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 33-35 |
|---|-----|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| | 2-3 | SET-UP | By the end of the lesson, the learner should be able to Define the term table Crate tables Insert rows and columns Merge/split rows | Q/A Demonstration practical | Handouts Working computer books | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 37-39 |
| 7 | 1 | TABLE CONVERSION/ ARITHMETIC CALCULATIONS | By the end of the lesson, the learner should be able to convert text to a table and vice verse import tables/perform calculations | Q/A Demonstration practical | Handouts Working computer Chalk board | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 40-41 |
| | 2-3 | MAIL MERGE | By the end of the lesson, the learner should be able to Define the term mail merge Create: main document and data source Merge fields | Q/A Demonstration practical | Letters Card Working computer Chalk board | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 44-46 |
| 8 | 1 | GRAPHICS | By the end of the lesson, the learner should be able to Define the term graphic Insert/edit graphics | Q/A Demonstration practical | Clip artWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 44-49 |

| | 2-3 | PRINTING | By the end of the lesson, the learner should be able to Define the term printing Set up the printer and print | Q/A Demonstration practical | LettersWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 44 |
|----|-----|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 9 | 1 | SPREAD SHEETS (SPREADSHEETS) | By the end of the lesson, the learner should be able to Define the term spreadsheets Explain the application areas of spreadsheet | • Q/A Discussion | Call registerAccounts book | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 52-53 |
| | 2-3 | CREATING A WORKSHEET | By the end of the lesson, the learner should be able to • Define the term worksheet • Create a worksheet • Save/retrieve a worksheet | Q/A demonstration practical | Handouts Class register Accounts book Working computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 57-65 |
| 10 | 1 | CELL DATA TYPES | By the end of the lesson, the learner should be able to Define the term cell data type Explain the different data types | • Q/A discussion | • Books | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 66 |
| | 2-3 | CELL REFERENCING | By the end of the lesson, the learner should be able to • Define the term cell referencing • Explain the different cell referencing • Apply cell referencing on a | Q/A Demonstration practical | Books Handouts Working computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 66-69 |

| | computer | | | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 11 1 FUNCTIONS AND FORMULAE | By the end of the lesson, the learner should be able to Differentiate between functions and formulae Apply functions and formulae on a document | Q/A demonstration Practical | Working computerBooks | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 70-73 |
| 2-3 WORKSHEET FORMATTING | By the end of the lesson, the learner should be able to • Format a worksheet: text, numbers, rows, columns and global | Q/A Demonstration practical | BooksHandoutsWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 74-79 |
| 12 1 DATA MANAGEMENT | By the end of the lesson, the learner should be able to • Explain the terms, Sort, filter, total forms • Apply the above features | Q/A Demonstration practical | BooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 73-75 |
| 2-3 CHARTS/GRAPH | By the end of the lesson, the learner should be able to Definite the terms chart Explain the different charts Insert charts | Q/A Demonstration practical | BooksHandoutsWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 77-79 |
| END TERM EXAMS/SCHOOLS CLOSE | I | | | |

| | | | | COMPUTER FO | ORM 2 SCHEMES OF WORK – | TERM 2 | | |
|----------|----------------|----------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| WE EK | LES SO N | TOPIC | SUB - TOPIC | OBJECTIVES | DATABASES LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS |
| 1 | | Reporting from | home and settling for | the second term work | | | | |
| 2 | 1 | | DATABASE | By the end of the lesson, the learner should be able to • Define the database • Explain the concept of D/base | • Q/A discussion | • Class list | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 93-94 | |
| | 2-3 | | DATABASE MODELS | By the end of the lesson, the learner should be able to Define the term d/base model Explain the difference d/base models Discuss the features of a database | Q/A demonstration practical | Handouts Books Working computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 96-98 | |
| 3 | 1 | | DATA ORGANIZATION | By the end of the lesson, the learner should be able to Organize data in a database Start Ms Access | Q/A demonstration practical | HandoutsBooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 97-100 | |
| | 2-3 | | MS ACCESS SCREEN LAYOUT | By the end of the lesson, the learner should be able to • Explain the access screen layout • Create a database | Q/A Demonstration practical | LettersCardsBooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 100-104 | |
| 4 | 1 | | EDITING A D/BASE | By the end of the lesson, | Q/A Demonstration | • Letters | • Longhorn | |

| | | | the learner should be able to • Edict a data base | practical | CartWorking computer | Computer studies Secondary. S.Mburu, G. Chemwa page 108-109 |
|---|-----|----------------------|----------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| | 2-3 | QUERIES | By the end of the lesson, the learner should be able to Define the term query Crate a query | Q/A Demonstration Practical | LettersCardWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 116-117 |
| 5 | 1 | UPDATING A QUERY | By the end of the lesson, the learner should be able to Update a query View a query | Q/A Demonstration practical | HandoutsBooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 120-122 |
| | 2-3 | FORM DESIGN | By the end of the lesson, the learner should be able to • Explain the form layout • Create a form | Q/A Demonstration practical | BooksNewspaperWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 110-113 |
| 6 | 1 | FORMATTING FIELDS | By the end of the lesson, the learner should be able to Display records in a form Format fields | Q/A Demonstration practical | Handouts | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 113 |
| | 2-3 | REPORTS LAYOUT | By the end of the lesson, the learner should be able to Define a report Create a report Modify a report | Q/A Demonstration Practical | HandoutsBooksWorkingComputer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page |

| | | | | | | 125-129 |
|---|-----|----------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | 1 | REPORTS LAYOUT | By the end of the lesson, the learner should be able to Sort and group data in a report Design labels | Q/A Demonstration practical | FormsReportWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 40-41 |
| | 2-3 | PRINTING | By the end of the lesson, the learner should be able to Define the term printing Print: form and a report | Q/A Demonstration Practical | FormsReportWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 112 |
| | | | | DESKTOP PUBLISHING | | |
| 8 | 1 | DESKTOP PUBLISHING | By the end of the lesson, the learner should be able to Define DTP S/W State then purpose of DTPS/W | Q/A Demonstration practical | Clip artWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 132-134 |
| | 2-3 | DESIGNING A PUBLICATION | By the end of the lesson, the learner should be able to • Explain the DTP S/W • Discuss the types of DTP publications | Q/A Observation Practical | LettersWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 133-134 |
| 9 | 1 | DESIGNING A PUBLICATION | By the end of the lesson, the learner should be able to Run the DTP program Explain the DTP screen layout | Q/A discussion | Cards, certificates, text, calendars, text books | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 134-136 |

| | 2-3 | DESIGNING A PUBLICATION | By the end of the lesson, the learner should be able to Set up a publication Manipulate text and graphics | Q/A demonstration practical | Cards, certificates, text calendars, textbooks Working Computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 139-143 | |
|-----------|---------|----------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|
| 10 | 1 | TEXT | By the end of the lesson, the learner should be able to • Design page layout • Use a ruler to measure | Q/A discussion | Calendars, textbooks | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 158 | |
| | 2-3 | GRAPHICS | By the end of the lesson, the learner should be able to Define the term graphics Change full stroke Reshape objects | Q/A Demonstration practical | BooksHandoutsWorkingComputer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 150 | |
| 11 | 1 | GRAPHICS | By the end of the lesson, the learner should be able to Copy an object Import and wrap text | Q/A Demonstration Practical | BooksHandoutsWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 161-162 | |
| | 2& 3 | GRAPHICS | By the end of the lesson, the learner should be able to | Q/A Demonstration Practical | BooksHandoutsWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 164-168 | |
| 12/ 13 | 1 | ROTATE/CROP | By the end of the lesson, the learner should be able to • Explain the terms, | Q/A Demonstration practical | BooksWorking computer | LonghornComputerstudies | |

| | sort, filter, total, | | Secondary. | | | | |
|--------------------------------------|----------------------|--|-------------|--|--|--|--|
| | forms | | S.Mburu, G. | | | | |
| • | Apply the above | | Chemwa page | | | | |
| | features | | 164 | | | | |
| THE SCHOOL CLOSES (FND OF TERM EVAMS | | | | | | | |

COMPUTER FORM 1 SCHEMES OF WORK – TERM 1

| | | | | | INTERNET AND E-MAIL | | | |
|----------|----------------|-----------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| WE EK | LES SO N | TOPIC | SUB - TOPIC | OBJECTIVES | LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS |
| 1 | Repo | orting from hom | e and settling for the fi | rst term work | ! | ! | | - |
| 2 | 1 | | INTERNET AND E-MAIL | By the end of the lesson, the learner should be able to Define the term internet Explain the development of internet | Q/A discussionDemonstrationobservation | internetText bookWorkingComputer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 168-169 | |
| | 2-3 | | IMPORTANCE OF THE INTERNET | By the end of the lesson, the learner should be able to • Explain the importance of the internet | Q/A demonstration practical | HandoutsBooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 266-275 | |
| 3 | 1 | | INTERNET CONNECTIVITY | By the end of the lesson, the learner should be able to • Define the internet connectivity | Q/A Demonstration Practical | HandoutsBooksModem S/WWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page | |

| | | | Explain elements of IC | | | 273-276 |
|---|-----|-----------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| | 2-3 | INTERNET SERVICES | By the end of the lesson, the learner should be able to • Explain the internet services | Q/A Demonstration Practical | LettersCardsBookscomputer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 273-276 |
| | 1 | ACCESSING INTERNET | By the end of the lesson, the learner should be able to • Log in/Sign in • Surf/browse | Q/A Demonstration practical | Web pagesBooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 279 |
| 4 | 2-3 | HYPER LINKS AND SEARCH ENGINES | By the end of the lesson, the learner should be able to Define the term search engine Use search engines | Q/A Demonstration practical | LettersCardWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 177-179 |
| 5 | 1 | ELECTRONIC MAIL | By the end of the lesson, the learner should be able to • Explain the term e-mail • Discuss the use of email s/w | Q/A Demonstration practical | HandoutsBooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 178-180 |
| | 2-3 | E-MAIL | By the end of the lesson, the learner should be able to • State the e-mail facilities • Compose mails • Check mails | Q/A Demonstration practical | BooksWeb pagesWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 30-37 |

| 6 | 1 | E-MAIL | By the end of the lesson, the learner should be able to • Manipulate an e- mail | Q/A Demonstration practical | HandoutsBooksWeb pagesWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 180 |
|---|-----|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| | 2-3 | SET-UP | By the end of the lesson, the learner should be able to • Fax e-mail • Attach files | Q/A Demonstration practical | WebsitesWeb pagesWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 181-182 |
| 7 | 1 | TEL MESSAGING | By the end of the lesson, the learner should be able to Explain the term tel messaging Develop contact mgt | Q/A Demonstration practical | HandoutsWeb pagesWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 181-182 |
| | 2-3 | EMERGING ISSUES | By the end of the lesson, the learner should be able to • Explain the emerging issues • Search for the emerging issues in the net | Q/A Demonstration practical | WebsitesWeb pagesWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 182-183 |
| 8 | 1 | GRAPHICS | By the end of the lesson, the learner should be able to Define the term graphic Insert/edit graphics | Q/A Demonstration practical | Web sitesWeb pagesWorking computer | • Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 44-49 |
| | 2-3 | G. DATA SECURITY AND CONTROLS | By the end of the lesson, the learner should be able to • Define the term | Q/A Demonstration practical | BooksWorking computer | Longhorn Computer studies Secondary. |

| | | | data security Identify security threats on ICT | | | S.Mburu, G. Chemwa page 185-186 |
|----|-----|-------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 9 | 1 | CONTROL MEASURES | By the end of the lesson, the learner should be able to Discuss the control measures on ICT | Q/A discussion | InternetBooksWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 186-188 |
| | 2-3 | COMPUTER CRIMES | By the end of the lesson, the learner should be able to • Define the term computer crimes • Explain the computer crimes | Q/A Demonstration Practical | BooksInternetWorking computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 188-190 |
| 10 | 1 | ICT PROTECTION | By the end of the lesson, the learner should be able to • Discuss ICT protection measures | Q/A Demonstration practical | Books Internet Handouts Working computer | Longhorn Computer studies Secondary. S.Mburu, G. Chemwa page 190-193 |
| | 2-3 | LAWS OF ICT | By the end of the lesson, the learner should be able to • Define the terms ethics • Explain the ethical issues | Q/A demonstration practical | Books Internet Handouts Books Working computer | Computer studies by S.John Onunga page 327-328 |
| 11 | 1 | ICT LEGISLATION | By the end of the lesson, the learner should be able to Discuss ICT laws | Q/A discussion | | Computer studies by S.John Onunga page 328-331 |
| | 2-3 | WORKSHEET FORMATTING | By the end of the lesson, the earner should be able to • Format a | Q/A Demonstration practical | BooksHandoutsWorking computer | Longhorn Computer studies Secondary. |

| | | w/sheet: text, | | S.Mburu, G. | |
|--------------|-----------------|----------------|--|-------------|--|
| | | numbers, rows, | | Chemwa page | |
| | | columns and | | 190-193 | |
| | | global | | | |
| | · | | | | |
| SCHOOLS CLOS | SES END OF YEAR | | | | |

| | | | | | ORM 3 SCHEMES OF WORK | | | |
|----------|---------|---------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| WE EK | SO N | TOPIC | SUB - TOPIC | OBJECTIVES | LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS |
| | 1 | Data Representati on in a computer | DEFINITION & INTRODUCTION | By the end of the lesson, the learner should be able to Define data Define information Classify computers according to functionality with illustration | Questions and answers Discussions in groups brainstorming | computer keyboard electronic circuits Charts Photographs Pictures from books | Longhorn Computer studies Bk 3 page 1-3 Computer studies by Onunga and Shah page 1 | |
| | 2 | | DATA REPRESENTATION | By the end of the lesson, the learner should be able to • Represent data in digital computers (i) On electronic circuits (ii) On magnetic media (iii) Optical media | Discussions in groups Exercises by the teacher | Charts Floppy diskettes Compact disk Electronic circuit | Longhorn Computer studies Bk 3 page 23 Computer studies by Onunga and Shah page 1 | |
| | 3-4 | Data Representati | DATA REPRESENTATION | By the end of the lesson, the learner should be able | • Discussions | • charts | Longhorn Computer | |

| | | on | | Give reasons why binary system is used in computers Define bits, bytes, nibble and word | Question and answer | | studies Bk 3 page 24 Computer studies by Onunga and Shah page 1 |
|---|-----|----------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | 1 | Data Representati on | NUMBER SYSTEMS | By the end of the lesson, the learner should be able to Define decimal number Represent data in decimal number system Represent data in actual number system | Group discussions Exercises given and marked by the teacher | Charts Simple calculations | Longhorn Computer studies Bk 3 page 25 Computer studies by Onunga and Shah page 6 |
| | 2 | | NUMBER SYSTEM | By the end of the lesson, the learner should be able to Represent data in actual number system Represent data in Hexadecimal number system | Group discussions Questions and answering exercises | charts simple calculations Computer | Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 7-8 |
| | 3/4 | 1 7 | BLEM SOLVING | nt and revises for better reten | tion | | |
| 3 | 1 | Data representatio n | FURTHER CONVERSION OF NUMBER SYSTEMS | By the end of the lesson, the learner should be able to Convert binary number to decimal number system Convert decimal numbers to binary numbers to | Questions and answers Discussions in groups | Charts Simple calculations Questions papers | Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 8 |
| | 2 | и | u | By the end of the lesson,, the learner should be able | DiscussionsQuestions and | ChartsSimple | LonghornComputer |

| | | | | Convert binary fraction to decimal number system Convert a decimal fraction to binary | answers | calculations • Questions papers | studies Bk 3 page 26 Computer studies by Onunga and Shah page |
|-----|-----|-----------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 3-4 | 1 | VING AND QUIZ | inswer session for better reten | tion | | |
| 4 | 1 | DATA REPRESENTA TION | Converting octal numbers to decimal and binary numbers | By the end of the lesson, the learner should be able to Convert octal numbers to decimal numbers Convert octal numbers to binary numbers | Discussion Question and answer | • Chart | Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 12 |
| | 2 | DATA REPRESENTA TIONS | Converting hexadecimal numbers to binary number | By the end of the lesson, the learner should be able to Convert hexadecimal to decimal numbers Convert hexadecimal numbers to binary numbers | Discussions Question and answer | Charts Simple calculations Computers Scientific calculators | Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 13-15 |
| 3-4 | 1 7 | Z AND PROBLEM | | | | | |
| | Can | be inform of a q | uestion/answer sessio | on for retention | | | |
| 5 | 1 | DATA REPRESENTATI ONS | Symbolic Representation using coding schemes | By the end of the lesson, the learner should be able to • Explain the binary coded decimal code as a representation Scheme (BCD) • Explain the extended Binary coded decimal | Discussions Question and answer | Charts Scientific Calculators | Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 22-27 |

| | | | | interchange code (EBCDIC) | | | |
|---|---------|--------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2 | DATA REPRESENTATI ON | Symbolic Representation using coding schemes | By the end of the lesson, the learner should be able to • Explain the American standard code for information interchange code (ASCII) as a representation scheme | Discussion in groups | Charts Scientific and simple calculator computer | Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 22-27 |
| | 3- 4 | QUIZ FOR TETEN Administer a sm | | | | | |
| 6 | 1 | | BINARY ARITHMETIC OPERATIONS | By the end of the lesson, the learner should be able to • Represent signed binary numbers using prefixing an extra sign bit to a binary number and ones complement | Teacher demonstrates Group discussions Questions and answering | Simple calculators PDA's charts | Longhorn Computer studies Bk 3 page 27 Computer studies by Onunga and Shah page 27 |
| | 2 | | BINARY ARITHMETIC OPERATIONS | By the end of the lesson, the learner should be able to • Represent signed binary numbers using two's complement | Teachers demonstrates Question and answer Group discussions | " | Longhorn Computer studies Bk 3 page 27 Computer studies by Onunga and Shah page 27 |
| | 3- 4 | | BINARY ADDITION | By the end of the lesson, the learner should be able to • Perform seven possible binary additions • Outline the procedure for | Demonstration by the teacher Teacher gives and marks questions Group discussions | • Charts | Longhorn Computer studies Bk 3 page 27 Computer studies by Onunga and Shah page 27 |

| | | | | binary additions | | | |
|---|----|--------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | 1 | | BINARY ARITHMETIC OPERATIONS | By the end of the lesson, the learner should be able to Perform direct subtraction Perform subtraction using ones complement | Discussions Demonstration by teacher Question and answer | Chartscalculator | Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 28 |
| | 2 | | BINARY ARITHMETIC OPERATIONS | By the end of the lesson, the learner should be able to • Perform subtraction using twos complement | Discussions Demonstration by teacher Question and answer | Chartscalculator | Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 28 |
| | 3- | QUIZ AND PROB | SLEM SOLVING | | | | The property of the property o |
| | 4 | Teacher evaluat | es by giving questions | to ascertain whether objective | ves are achieved | | |
| 8 | 1 | Data Processing | DEFINITION AND INTRODUCTION | By the end of the lesson, the learner should be able to • Define data information and data processing • Describe the data processing cycle • Give methods of data collection | Group discussions Question and answering brainstorming | chartscomputer | Longhorn Computer studies Bk 3 page 32 Computer studies by Onunga and Shah page 32-35 |
| | 2 | Data Processing | DATA PROCESSING CYCLE | By the end of the lesson, the learner should be able to • List stages for data processing • Describe the listed data processing cycle stage | Group discussions Question and answering Brainstorming | chartscomputer | Longhorn Computer studies Bk 3 page 32 Computer studies by Onunga and Shah page 32-35 |
| | 3- | Data | DATA PROCESSING | By the end of the lesson, | Discussion in groups | Flash cards | |

| | 4 | Processing | CYCLE | the learner should be able to • Give the errors that influence the accuracy of data and information output • Explain the errors in data processing | Question and answer Assignments marked by the teacher | Chartscomputer | Longhorn Computer studies Bk 3 page 35 Computer studies by Onunga and Shah page 33 |
|---|---------|--------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9 | 1 | Data processing | DATA INTEGRITY | By the end of the lesson, the learner should be able to • Define data integrity • Give the measurements of data integrity • Accuracy • Timelines • Relevance • Describe the listed data integrity measurements | Discussion in groups Illustrations by the teacher Question and answer | Flash cards Simple information system | Computer studies by Onunga and Shah page 41 |
| | 2 | Data processing | DATA PROCESSING METHODS | By the end of this lesson, the learner should be able to • State the ways of minimizing threat to data integrity • List and describe the methods of data processing | Discussion in groups Illustrations by the teacher Question and answer | Flash cards Simple information system | Computer studies by Onunga and Shah page 41 |
| | 3- 4 | Data processing | COMPUTER FILES | By the end of the lesson, the learner should be able to • Define a computer file • Give the types of computer files • State the advantages of computerized | Discussion in groups Illustrations by the teacher Question and answer | • Charts | Computer studies by Onunga and Shah page 49 |

| | | | | filing | | | |
|----|-----|--------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | 1 | Data processing | ELEMENTS OF COMPUTER FILE | By the end of the lesson, the learner should be able to • List the elements of a computer file • Describe the listed elements of a computer file | Question and answer | database chart with relation database | • Longhorn Computer studies Bk 3 page 40 |
| | 2 | Data processing | CLASSIFICATION OF COMPUTER FILES | By the end of the lesson, the learner should be able to Classify computer files Differentiate between logical and physical computer files | teacher • | Floppy diskette Compact disc Computer video tape | Longhorn Computer studies Bk 3 page 41 Computer studies by Onunga and Shah page 50 |
| | 3-4 | Data processing | COMPUTER PROCESSING FILES | By the end of the lesson, the learner should be able to • Give the types of processing files • Describe the listed types of processing files • Master files • Transaction file • Reference files • Backup files • Sort files | | Charts Flash cards | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 41 |
| 11 | 1 | Data processing | FILE ORGANIZATION METHODS | By the end of the lesson, the learner should be able to • Define file organization • List the methods of organizing files on a storage media • Describe the listed methods of | answer • | Floppy diskettes Compact disk Video tapes | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 42 Computer studies by Onunga and |

| | | | file organization | | | Shah page 55 |
|-----|--------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Data processing | ELECTRONIC DATA PROCESSING | By the end of the lesson, the learner should be able to • Give the data processing modes • Describe (i) Online processing (ii) Real-time processing (iii) Distributed processing | Discussions in groups Question and answer Illustration by the teacher | ChartsFlash cards | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 43-45 Computer studies by Onunga and Shah page 61 |
| 3-4 | Data processing | ELECTRONIC DATA PROCESSING MODES | By the end of the lesson, the learner should be able to • Describe (i) Time- sharing (ii) Batch processing (iii) Multi processing (iv) Multi-tasking (v) Interactive processing | Discussions in groups Question and answer Illustration by the teacher | ChartsFlash cards | Computer studies by Onunga and Shah page 612-69 |
| 12 | END OF TERM | EXAMS AND CLOSING (| , | | | , |
| 1 | 1 | | | | | |

COMPUTER FORM 3 SCHEMES OF WORK – TERM 2

| WE EK | LES SO | TOPIC | SUB - TOPIC | OBJECTIVES | LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS |
|----------|-----------|-------|-------------|------------|------------------------------|--------------------------------|------------|---------|
| | N | | | | | | | |
| | | | | | | | | |

| 1 | 1 | ELEMENTARY PROGRAMMI NG PRINCIPLES | DEFINITION OF PROGRAMMING | By the end of this lesson, the learner should be able to • Define programming • List the terms used in programming • Describe the listed terms • Differentiate between source program and object program | Question and answer Discussion in groups Illustration by the teacher | Charts Books Journals Software computer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 47 Computer studies by Onunga and Shah page 72 |
|---|-----|---------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2 | ELEMENTARY PROGRAMMI NG PRINCIPLES | LEVELS OF PROGRAMMING LANGUAGE | By the end of the lesson, the learner should be able to Classify the programming languages Describe the low level programming language | DemonstrationQ/A | Flash cards Charts books | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 49-51 Computer studies by Onunga and Shah page 73 |
| | 3-4 | ELEMENTARY PROGRAMMI NG PRINCIPLES | LEVELS OF PROGRAMMING LANGUAGE | By the end of the lesson, the learner should be able to Describe the high level language State the advantages and disadvantages of low-level and high level languages | • Q/A • Discussion | Flash cardsCharts | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 59 Computer studies by Onunga and Shah page 74-75 |
| 2 | 1 | ELEMENTARY PROGRAMMI NG PRINCIPLES | PROGRAM DEVELOPMENT | By the end of the lesson, the learner should be able to • List the stages in program | Question and answerDiscussion in groups | Flash cardscharts | Longhorn Computer studies by Mburu and |

| | | | | development Describe (i) program recognition (ii) program definition | | | Chemwa Bk 3 page 60-66 |
|---|-----|---------------------------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| | 2 | ELEMENTARY PROGRAMMI NG PRINCIPLES | PROGRAM DEVELOPMENT | By the end of the lesson, the learner should be able to • Describe (i) Program design (ii) Program coding | Demonstration Illustrations by teacher | Computer software | Computer studies by Onunga and Shah page 83 |
| | 3-4 | ELEMENTARY PROGRAMMI NG PRINCIPLES | PROGRAM DEVELOPMENT | By the end of the lesson, the learner should be able to Describe (i) program testing (ii) Program implementati on and maintenance | Discussions in groups Illustrations by the teacher Question and answer | Flash cardscharts | Computer studies by Onunga and Shah page 85 |
| 3 | 1 | ELEMENTARY PROGRAMMI NG PRINCIPLES | PROGRAM DOCUMENTATION | By the end of the lesson, the learner should be able to Define the term program documentation State the forms of documentation Describe the target groups for documentation | Discussions in groups Illustrations by the teacher Question and answer | Chalkboardcharts | • Longhorn Computer studies by Mburu and Chemwa Bk 3 page 67 |
| | 2 | ELEMENTARY PROGRAMMI NG PRINCIPLES | DEVELOPMENT OF ALGORITHMS | By the end of the lesson, the learner should be able to Define algorithm List tools used in algorithm Distinguish | Discussion in groups Question and answer Illustration by the teacher | ChalkboardChartsFlash cards | Longhorn Computer studies by Mburu and Chemwa Bk 3 |

| | | | | between pseudo code and flow charts | | | page 68 |
|---|-----|---------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 3-4 | ELEMENTARY PROGRAMMI NG PRINCIPLES | DESIGNING MORE COMPLEX ALGORITHMS | By the end of the lesson, the learner should be able to • Give comparison between a pseudo code and a flow chart • Design complex algorithms | Question and answer Demonstration by the teacher Group discussions | • Charts | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 68 |
| 4 | 1 | ELEMENTARY PROGRAMMI NG PRINCIPLES | PROGRAM CONTROL STRUCTURES | By the end of the lesson, the learner should be able to Define program control structures List three control structures Describe sequence as a control structure | Discussions in groups | Chartschalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 72-78 Computer studies by Onunga and Shah page 93 |
| | 2 | ELEMENTARY PROGRAMMI NG PRINCIPLES | PROGRAM CONTROL STRUCTURES | By the end of the lesson, the learner should be able to • Describe the use of iteration (looping) as a control structure | Discussion in groups | Chartschalkboard | Computer studies by Onunga and Shah page 94 |
| | 3-4 | ELEMENTARY PROGRAMMI NG PRINCIPLES | Program control structures | By the end of the lesson, the learner should be able to Describe selection as a control structure Design a more complex algorithm | Illustration by the teacher Discussion in groups Question and answer | Chartchalkboard | Computer studies by Onunga and Shah page 94 |
| 5 | 1 | PROBLEM SOLV | /ING | | | | |

| | 2 | SYSTEM DEVELOPMEN T | Definition | By the end of the lesson, the learner should be able to Define the term system Describe a system list List the characteristics of a system | Discussion Question and answer | Charts Chalkboard Journals Computer books | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 91-95 Computer studies by Onunga and Shah page 168 |
|---|-----|---------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 3-4 | SYSTEM DEVELOPMEN T | Information system | By the end of the lesson, the learner should be able to • Describe the listed characteristics of a system • Define information system | Discussion in groups Illustration by the teacher | Charts Flash cards Chalkboard Computer Books | Computer studies by Onunga and Shah page 170 |
| 6 | 1 | SYSTEM DEVELOPMEN T | Information system | By the end of the lesson, the learner should be able to • State the main purpose of an information system • Give reasons why information system is developed • State the role of information system analyst | Discussion Illustrations by the teacher Question and answer | Charts Flash cards Computer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 95 |
| | 2 | SYSTEM DEVELOPMEN T | Theories of system development | By the end of the lesson, the learner should be able to Describe tradition approach Describe rapid application development | Discussions in groups Illustration by the teacher | Chalk board Flash cards Charts | Computer studies by Onunga and Shah page 170 |

| | 3-4 | | Theories of system development | By the end of the lesson, the learner should be able to • Describe the structured approach • Give examples of ways of information of gathering | Discussions in groups Illustration by the teacher | Chalk board Flash cards Charts | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 97 |
|---|-----|---------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | 1 | SYSTEM DEVELOPMEN T | Stages of system development | By the end of the lesson, the learner should be able to • State and define all the stages of system development | Illustration by the teacher Question and answer | Chalk boardcharts | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 97 |
| | 2 | SYSTEM DEVELOPMEN T | Stages of system development | By the end of the lesson, the learner should be able to • Give the methods used in information gathering • Describe interviews studying of available documents as used in information gathering | Demonstration Discussion | Chalk boardCharts | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 100-104 Computer studies by Onunga and Shah page 175 |
| | 3-4 | SYSTEM DEVELOPMEN T | Stages of system development | By the end of the lesson, the learner should be able to • Prepare a questionnaire • Prepare and present a fait finding report • Describe how automated methods are used | Discussions in groups Question and answer Illustration by the teacher | Sample questionnaire Chalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 104 |

| 8 | 1 | SYSTEM DEVELOPMEN T | Requirements specification | By the end of the lesson, the learner should be able to • Describe output specification • Describe input specification | DiscussionsQuestion and answer | ChalkboardCharts | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 105 |
|---|---|---------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| | | SYSTEM DEVELOPMEN T | Requirements specification | By the end of the lesson, the learner should be able to Describe file/data stores Describe hardware and software requirements | DiscussionsQuestion and answer | ChalkboardCharts | • Longhorn Computer studies by Mburu and Chemwa Bk 3 page 109 |
| | | SYSTEM DEVELOPMEN T | System design | By the end of the lesson, the learner should be able to • Define system flowchart • Identify common flowchart symbols | DiscussionsQuestion and answer | ChalkboardCharts | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 109 |
| 9 | 1 | SYSTEM DEVELOPMEN T | Designing a system flowchart | By the end of the lesson, the learner should be able to • Identify guidelines fro designing system flowcharts • Write a system flowchart using a case study | Discussions Question and answer Illustration by the teacher | ChartsChalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 110 |
| | 2 | | Designing a system flowchart | By the end of the lesson, the learner should be able to • Write a simple book borrowing module flowchart • Write cleaners information system | Illustration by the teacher Discussion in groups | ChartsChalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 110 |

| | | | | flowchart | | | |
|----|-----|---------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| | 3-4 | | Designing a system flowchart | By the end of the lesson, the learner should be able to • Write a sample library books management system flowchart • Use data flow diagrams | Question and answer Discussion in groups | Chalkboardchart | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 110 |
| 10 | 1 | SYSTEM DEVELOPMEN T | System Construction | By the end of the lesson, the learner should be able to • Define the term system construction • Identify number of technique that can be used to construct a designed system | Question and answer Discussion in groups | Charts Chalkboard Information system (Cleaner) | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 110 |
| | 2 | | System Implementation | By the end of the lesson, the learner should be able to • Define system implementation and file conversion • Describe factors considered during file conversion | Illustrations by the teacher discussion | Chartschalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 116 |
| | 3-4 | | Change over strategies | By the end of the lesson, the learner should be able to • Define the term changeover • List the system change over strategies • Describe three listed changeover strategies | Discussions Question and answer | Flash card Charts chalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 116 |

| 11 | 1 | System maintenance and revision | By the end of the lesson, the learner should be able to • Define system maintenance • Define system review • Describe security control measures | Illustration by the teacher Question and answer | ChartsFlash cards | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 116 |
|----|------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| | 2 | System documentation | By the end of the lesson, the learner should be able to • Write a report on case study | Illustration by the teacher Question and answer | ChartsFlash cards | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 117 |
| | 3-4 | System documentation | By the end of the lesson, the learner should be able to • Develop a system using a case study | Illustration by the teacher Discussions | A chartComputerPrinterChalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 117 |
| 12 | 1 | System documentation | By the end of the lesson, the learner should be able to Identify comprehensive system documentation details Write a report on the case study | Discussions Question and answer | ChartsComputer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 118-120 |
| | 2,3 & 4 | PRACTICALS | | | | |
| | Q 4 | PRACTICALS | | | | |

END OF TERM EXAMINATION

| WE | LES | TOPIC | SUB - TOPIC | OBJECTIVES | RM 3 SCHEMES OF WORK – LEARNING/TEACHING | LEARNING/TEACHING | REFERENCES | REMARKS |
|----|---------|-------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------|
| EK | SO N | TOTIC | JOB - TOFIC | OBJECTIVES | ACTIVITIES | RESOURCES | KEIEKEKEES | REWARKS |
| 1 | 1 | PROGRAMMIN G WITH VISUAL AIDS | Definition | By the end of the lesson, the learner should be able to Define the term visual basic Start up visual basic Identify features of visual basic | Demonstration by the teacher Discussions Question and answer | ChalkboardComputerchart | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 122 | |
| | 2 | PROGRAMMIN G | Visual basic toolbox | By the end of the lesson, the learner should be able to • Identify parts of the visual basic tool box • Describe parts of the visual basic toolbox | Demonstration Question and answer | ChalkboardPhotographcomputer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 123 | |
| | 3-4 | | Saving a visual project | By the end of the lesson, the learner should be able to Save a visual basic project Open an existing visual basic project | Demonstration by the teacher Question and answer Practical | ComputerChalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 123 | |
| 2 | 1 | | Visual basic fundamental concepts | By the end of the lesson, the learner should be able to Identify the visual basic fundamental concepts Describe the listed | DiscussionsQuestions and answer | Chalkboard Charts Computer Simple calculators | Longhorn Computer studies by Mburu and Chemwa Bk 3 | |

| | | | fundamental concepts | | | page 136 |
|---|-----|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| | 2 | Mathematical operators | By the end of the lesson, the learner should be able to Identify mathematical operators Describe the listed mathematical operators | DiscussionsQuestion and answers | Chalkboard Charts Computer Simple calculators | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 137 |
| | 3-4 | Numeric strings and values | By the end of the lesson, the learner should be able to convert a numeric string to a value Convert a value to a string | Illustrations by the teacher Discussions Question and answer | Chartscomputer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 137 |
| 3 | 1 | Project developments | By the end of the lesson, the learner should be able to • Create a program used to calculate the area of a rectangle | Discussion in groups Illustrations by the teacher | ChartsComputer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 145 |
| | 2 | Project developments | By the end of the lesson, the learner should be able to • Write a program used to find roots of a quadratic expression | Discussion in groups Illustrations by the teacher | ChartsComputer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 147 |
| | 3-4 | Case construct Looping construct | By the end of this lesson, the learner should be able to • Use case statement that can | Demonstration by the teacher Discussion Question and answer | ChartChalkboardComputerprinter | Longhorn Computer studies by Mburu and |

| | | | display the name of a weekday when its number is provided • Write a program using do-loop • Write a program using FOR-NEXT LOOP | | | Chemwa Bk 3 page 147 |
|---|-----|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 4 | 1 | Working with graphical objects | By the end of the lesson, the learner should be able to Insert a picture using picture box Define module and procedure Declare general subroutines | Demonstration Question and answer discussion | chartcomputer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 150 |
| | 2 | Working with graphical objects | By the end of the lesson, the learner should be able to • Write a general subroutine that solves y= x ⁿ given that the value of n are integers | Demonstration Question and answer practical | computerprinterchartchalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 151 |
| | 3-4 | Creating means and dialog boxes | By the end of the lesson, the learner should be able to Create a dropdown menu Create a message and dialog boxes | Demonstration Discussions Question and answers | computerprinterchartchalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 151 |
| | 1 | List boxes and control boxes | By the end of the lesson, the learner should be able to Define list box and combo box Create a list box | DiscussionDemonstrationPractical | ChartPhotographComputerchalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 |

| | | | | and a combo box Create a project that loads a list of items | | | page 161 |
|---|-----|-----------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 5 | 2 | | Visual basic data structures | By the end of the lesson, the learner should be able to • Define the term arrays • Declare an array | DiscussionDemonstrationPractical | ChartPhotographComputerchalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 163 |
| | 3-4 | | Visual basic data structures | By the end of the lesson, the learner should be able to • Declare two dimensional arrays • Write array of records | DiscussionDemonstrationPractical | ChartPhotographComputerchalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 161 |
| 6 | 1 | | Data files | By the end of the lesson, the learner should be able to Define a file Identify types of files recognized by visual basic Link visual basic to data base | DemonstrationPracticalDiscussion | ChartComputerchalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 187-189 |
| | 2 | INTRODUCTIO N TO DATA BASE DESIGN | Definition | By the end of the lesson, the learner should be able to • Define database • Identify relationships in database | DemonstrationPracticalDiscussion | ChartComputerchalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 187-189 |
| | 3-4 | | Defining attributes | By the end of the lesson, the learner should be able to • Define a foreign | Question and answerPracticalDemonstration | computerchartchalkboard | Longhorn Computer studies by |

| | | | key Distinguish between an entity and attributes Create one to many relationships | discussions | | Mburu and Chemwa Bk 3 page 203-204 |
|---|-----|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 7 | 1 | File table structure | By the end of the lesson, the learner should be able to Create a table Set primary key and foreign key | DemonstrationDiscussionPractical | ComputerChartChalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 217 |
| | 2 | Enforcing Referential integrity | By the end of the lesson, the learner should be able to • Enforce referential integrity between tables • Normalize table | DemonstrationDiscussionPractical | ComputerChartChalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 217 |
| | 3-4 | Forms and commands | By the end of the lesson, the learner should be able to • Create a form/ interface • Call for commands | Discussion in groups Demonstration Practical Question and answer | ComputerChartChalkboard | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 210 |
| 8 | 1 | Creating reports | By the end of the lesson, the learner should be able to Describe the tools used to automate database Create a switchboard | Discussion in groups Demonstration Practical Question and answer | Chart computer | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 211 |
| | 2 | Automating database | By the end of the lesson, the learner should be able | Discussion in groups | Chartcomputer | LonghornComputer |

| | | Describe the tools used to automate database Create a switchboard | DemonstrationPracticalQuestion and answer | | studies by Mburu and Chemwa Bk 3 page 212 |
|-----|---------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 3-4 | Automating database | By the end of the lesson, the learner should be able to Create macros Develop a system using a case study | DemonstrationAssignment | ComputerChart | Longhorn Computer studies by Mburu and Chemwa Bk 3 page 212 |

REVISION AND END TERM EXAMS

| | | | | COMPUTER FO | RM 4 SCHEMES OF WORK – | TERM 1 | | |
|----------|----------------|------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| WE EK | LES SO N | TOPIC | SUB - TOPIC | OBJECTIVES | LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS |
| 1 | | orting from home | and settling for the fir | rst term | | | 1 | |
| 2 | 1 | | Definition of networking terms | By the end of the lesson, the learner should be able to Define the term computer network Explain the term data communication | Q/A discussion | NewspaperLettersbooks | Longhorn Computer studies by S.Mburu and C. Chemwa page 1-5 Computer studies by Onunga & Rena Shah Bk 4 page 1-5 | |
| | 2-3 | | Networking | By the end of the lesson, the learner should be able to Explain the types of computer n/w Discuss the purpose of n/w | Q/A demonstration practical | HandoutsBooksInternetWorking Pc | Longhorn Computer studies by S.Mburu and C. Chemwa page 5-9 Computer studies by Onunga & Rena Shah Bk 4 page 6 | |

| | 4 | | By the end of the lesson, the learner should be able to Explain the demerits of n/w | Q/A demonstration practical | Twisted cables Internet 5 Working pc | Longhorn Computer studies by S.Mburu and C. Chemwa page 10- 17 Computer studies by Onunga & Rena Shah Bk 4 page 6 |
|---|---------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 | 1 | Elements of networking | By the end of the lesson, the learner should be able to • Discuss communication with cables | Q/A demonstration practical | HandoutsBooksInternetWorking PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 17- 22 Computer studies by Onunga & Rena Shah Bk 4 page 9-11 |
| | 2-3 | Elements of networking | By the end of the lesson, the learner should be able to • Explain the types of wireless communication | Q/A demonstration practical | BooksInternetWorking PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 23- 28 Computer studies by Onunga & Rena Shah Bk 4 page 17-22 |
| 4 | 1 | Communication Devices | By the end of the lesson, the learner should be able to • Define the term communication devices • Explain the work of: Modems, network cards, hubs | Q/A demonstration practical | LettersSoftwareWorking Pc | Longhorn Computer studies by S.Mburu and C. Chemwa page 30- 33 Computer studies by Onunga & Rena Shah Bk 4 page 20 |
| | 2- 3 | Network Software | By the end of the lesson, the learner should be able | Q/A demonstration practical | HandoutsBooks | • Longhorn |

| | | | Discuss the different network s/w: O/S, protocols | | Working PC | Computer studies by S.Mburu and C. Chemwa page 30- 31 |
|---|-----|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 4 | Types of computer networks | By the end of the lesson, the learner should be able to • Discuss the three types of computer networks LAN,MAN, WAN | Q/A demonstration practical | InternetBooksWorking PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 4-5 Computer studies by Onunga & Rena Shah Bk 4 page 22 |
| 5 | 1 | Network topologies | By the end of the lesson, the learner should be able to • Define the term network topology • Differentiate btw. Logical and physical topologies | Q/A demonstration practical | InternetBooksWorking PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 33-34 Computer studies by Onunga & Rena Shah Bk 4 page 16 |
| | 2-3 | Network Topologies | By the end of the lesson, the learner should be able to Define the term network topology Differentiate between Logical and physical topologies Explain a star topology | Q/A demonstration practical | InternetBooksWorking PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 35-36 Computer studies by Onunga & Rena Shah Bk 4 page 18 |
| | 4 | Network Topologies | By the end of the lesson the learner should be able to • Explain a Mesh Topology Tree Topology | Q/A demonstration practical | Working PCHandouts | Longhorn Computer studies by S.Mburu and C. Chemwa page 37- 38 |

| 2. | APP | LICATION AREAS O | F NFORMATION AND | COMMUNICATION TECHNOLO | DGY | | Computer studies by Onunga & Rena Shah Bk 4 page 19 |
|----|-----|------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | 1 | | Application areas of ICT | By the end of the lesson, the learner should be able to Explain Application areas of ICT Financial system | Q/A demonstration practical | Internet Books Working PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 37-39 Computer studies by Onunga & Rena Shah Bk 4 page 27 |
| | 2-3 | | Application areas of ICT | By the end of the lesson, the learner should be able to Explain application areas of ICT in common system | Q/A demonstration practical | Internet Books Working PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 40-41 Computer studies by Onunga & Rena Shah Bk 4 page 27 |
| | 4 | | Application of ICT | By the end of the lesson, the learner should be able to • Explain application areas of ICT in retail system • Explain application areas of ICT in Reservation system | Q/A demonstration practical | Internet Books Working PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 40-59 Computer studies by Onunga & Rena Shah Bk 4 page |

| | | | | | | | 28 |
|---|-----|------|--------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | 1 | | Application areas of ICT | By the end of the lesson, the learner should be able to • Explain Application areas of ICT in Education | Q/A demonstration practical | InternetBooksWorking PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 41-58 Computer studies by Onunga & Rena Shah Bk 4 page 49 |
| | 2-3 | | Application areas of ICT | By the end of the lesson, the learner should be able to • Explain Application of ICT in Education System | Q/A demonstration practical | InternetBooksWorking | Longhorn Computer studies by S.Mburu and C. Chemwa page 41-58 Computer studies by Onunga & Rena Shah Bk 4 page 50 |
| 8 | 4 | Term | Application areas of ICT | By the end of the lesson, the learner should be able to • Explain Application areas of ICT in industrial System | Q/A demonstration practical | Internet Books Working PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 41-58 Computer studies by Onunga & Rena Shah Bk 4 page 39 |

| 9 | 1 | Application areas of ICT | By the end of the lesson, the learner should be able to • Explain application areas of ICT in entertainment and virtual reality | Q/A demonstration practical | Internet Books Working Pc | Longhorn Computer studies by S.Mburu and C. Chemwa page 61,64-65 Computer studies by Onunga & Rena Shah Bk 4 page 51/55 |
|---|---------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2- 3 | Application areas of ICT | By the end of the lesson, the learner should be able to • Explain application areas of ICT in marketing and law enforcement | Q/A demonstration practical | InternetBooksWorking Pc | Longhorn Computer studies by S.Mburu and C. Chemwa page 63 |
| | 4 | Application areas of ICT | By the end of the lesson, the learner should be able to • Explain application area of ICT in transportation system | Q/A Discussion | Internet Books Working Pc | Longhorn Computer studies by S.Mburu and C. Chemwa page 44-46 Computer studies by Onunga & Rena Shah Bk 4 page 47 |
| | 1 | Application areas of ICT | By the end of the lesson, the learner should be able to • Explain Application areas of ICT in Library System | • Q/A Discussion | InternetBooksJournals | Longhorn Computer studies by S.Mburu and C. Chemwa page |

| | | | | | | | 44 |
|----|---------|-----------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | IMP | ACT OF INFORMAT | I FION AND COMMUN | CATION TECHNOLOGY ON SOC | IETY | | l l |
| 10 | 2-3 | | Application areas of ICT in the society | By the end of the lesson, the learner should be able to • Discuss effects on (i) Employment (ii) Automated production | Q/A demonstration practical | LettersWorking PCNewspapers | Longhorn Computer studies by S.Mburu and C. Chemwa page 44 |
| | 4 | | Impact of ICT in the society | By the end of the lesson, the learner should be able to Discuss effects if ICT on work's health State the characteristics of future trends in ICT Discuss rapid evolution in ICT | • Q/A Discussion | HandoutsJournals | Longhorn Computer studies by S.Mburu and C. Chemwa page 44 Computer studies by Onunga & Rena Shah Bk 4 page 60 |
| 11 | 1 | | Impact of ICT in the society | By the end of the lesson, the learner should be able to • Discuss effects of ICT on (i) Environmental issues (ii) Cultural effects | • Q/A Discussion | HandoutsJournalsVideosPhotographs | Longhorn Computer studies by S.Mburu and C. Chemwa page 44 Computer studies by Onunga & Rena Shah Bk 4 page 63 |
| | 2- 3 | | Evolution of computer systems | By the end of the lesson, the learner should be able to | • Q/A Discussion | Class RegisterAccounts bookJournals | Longhorn Computer studies by S.Mburu and C. Chemwa page |

| | | | | | 52-53 • Computer studies by Onunga & Rena Shah Bk 4 page 81 |
|---|-------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 4 | Evolution of Computer systems | By the end of the lesson, the learner should be able to • Explain expanded information superhighway | • Q/A Demonstration Practical | handoutsclass registeraccounts | Longhorn Computer studies by S.Mburu and C. Chemwa page 79-80 |

| | COMPUTER FORM 4 SCHEMES OF WORK – TERM 2 CAREER OPPORTUNITIES IN ICT | | | | | | | | | | | |
|----------|-----------------------------------------------------------------------|-----------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|--|--|--|
| WE EK | LES SO N | TOPIC | SUB - TOPIC | OBJECTIVES | LEARNING/TEACHING ACTIVITIES | LEARNING/TEACHING RESOURCES | REFERENCES | REMARKS | | | | |
| 1 | керо | rting from nome | and settling for the fi | rst term work | | _ | | | | | | |
| 2 | 1 | | Career opportunities in ICT | By the end of the lesson, the learner should be able to • Discuss the roles of a system analyst, a chief programmer | • Q/A Discussion | BooksJournals | Longhorn Computer studies by S.Mburu and C. Chemwa page 79 Computer studies by Onunga & Rena Shah Bk 4 page 95 | | | | | |
| | 2-3 | | Career | By the end of the lesson, | • Q/A | • Books | Longhorn | | | | | |

| | | opportunities in ICT | the learner should be able to • Discuss functions of computer programmer and d/b administrator | Demonstration Practical | HandoutsNewspapersRealia | Computer studies by S.Mburu and C. Chemwa page 81 Computer studies by Onunga & Rena Shah Bk 4 page |
|---|-----|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| | 4 | Career Opportunities in ICT | By the end of the lesson, the learner should be able to Discuss the functions of a s/w engineer and a computer engineer | Q/A demonstration Practical | Books Working PC | Longhorn Computer studies by S.Mburu and C. Chemwa page 80 |
| 3 | 1 | Career opportunities in ICT | By the end of the lesson, the learner should be able to • Discuss the function of a web designer, web administrator and computer operator | Q/A demonstration Practical | BooksHandoutsJournals | Longhorn Computer studies by S.Mburu and C. Chemwa page 81 |
| | 2-3 | Career opportunities in ICT | By the end of the lesson, the learner should be able to • Discuss the function of computer technician and data processing manager | Learner to Q/A discussion | Books Realia | Longhorn Computer studies by S.Mburu and C. Chemwa page 78 |
| | 4 | Career opportunities in ICT | By the end of the lesson, the learner should be able to | • Q/A Discussion | BooksNewspapers | Longhorn Computer studies by S.Mburu and C. Chemwa page |

| | | | opportunities in the various institutions | | | 83-84 |
|---|-----|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | 1 | Identification of further Educational opportunities | By the end of the lesson, the leaner should be able to • Explain the different courses offered in universities, polytechnics, middle level colleges | • Q/A Discussion | • Books | Longhorn Computer studies by S.Mburu and C. Chemwa page 83-84 Computer studies by Onunga & Rena Shah Bk 4 page 106-110 |
| | 2-3 | Developing project using ms access d/base Description of a given system | By the end of the lesson, the learner should be able to Identify a problem Definition of a problem | Q/A discussion | Books Sampled projects | Longhorn Computer studies by S.Mburu and C. Chemwa page 83-84 Computer studies by Onunga & Rena Shah Bk 4 page 106-112 |
| | 4 | Fact finding | By the end of the lesson, the learner should be able to: • Identify the number of manual documents that are needed for the system given | Q/A observation | • Books | Longhorn Computer studies by S.Mburu and C. Chemwa page 83-84 Computer studies by Onunga & Rena Shah Bk 4 page 106-120 |

| 5 | 1 | Fact finding | By the end of the lesson, the learner should be able to • Design a sample interview guideline for the system given | • Q/A practical | Sampled projectsBooks | Longhorn Computer studies by S.Mburu and C. Chemwa page 83-84 |
|---|-----|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2-3 | Fact finding | By the end of the lesson, the learner should be ale to Design a sample questionnaire for the system giver | Q/A practical | Sampeled projects books | Longhorn Computer studies by S.Mburu and C. Chemwa page 93-94 Computer studies by Onunga & Rena Shah Bk 4 page 122 |
| | 4 | System design • Prelimina ry design phase | By the end of the lesson, the learner should be able to Identify the flowchart symbols Design a simple flowchart for the system | • Q/A practical | Sampled projectsBooks | Longhorn Computer studies by S.Mburu and C. Chemwa page 94-95 |
| 6 | 1 | System design • Prelimina ry design phase | By the end of the lesson, the learner should be able to Design a complex flowchart for the system | Q/A practical | Sampled projectsBooks | Longhorn Computer studies by S.Mburu and C. Chemwa page 94-95 |
| | 2-3 | Detailed design | By the end of the lesson, the learner should be able to Design the outputs | Q/A practical | Sampled projectsBooks | Longhorn Computer studies by |

| | | | for the system | | | S.Mburu and C. Chemwa page 94-95 |
|---|-------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| | 4 | Detailed design | By the end of the lesson, the leaner should be able to Design input interface for the system | Q/A practical | Sampled projectsBooks | Longhorn Computer studies by S.Mburu and C. Chemwa page 96-100 |
| 7 | 1 | Files and data stores design | By the end of the lesson, the learner should be able to Design a database | • Q/A practical | Sampled projectsBooks | Longhorn Computer studies by S.Mburu and C. Chemwa page 100-101 |
| | 2-3 | Creating relationships | By the end of the lesson, the learner should be able to • Create relationships | Q/A practical | • Books | Longhorn Computer studies by S.Mburu and C. Chemwa page 103 |
| | 4 | Hardware and software requirements | By the end of the lesson, the learner should be able to Identify h/w and s/w requirements for the system | • Q/A discussion | Books Realia | Longhorn Computer studies by S.Mburu and C. Chemwa page 103 |
| 9 | 1,2, 3,4 | Constructing information management system given Designing inputs | By the end of the lesson, the learner should be able to Design inputs | • practical | internetsampled projectsbooks | Longhorn Computer studies by S.Mburu and C. Chemwa page |

| 10 | 1,2, 3,4 | Designing outputs | By the end of the lesson, the learner should be able to • Design outputs | • practical | booksinternetsampled projects | • Longhorn Computer studies by S.Mburu and C. Chemwa page 86-153 | |
|----|-------------|---------------------------|----------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--|
| 11 | | • Designin g | By the end of the lesson, the learner should be able to • Design various management systems | • practical | • Books | Longhorn Computer studies by S.Mburu and C. Chemwa page 86-153 | |
| 12 | 1,2, 3,4 | Writing end of term exams | | | | | |
| 13 | | | | | | | |

| COMPUTER FORM 4 SCHEMES OF WORK – TERM 3 | | | | | |
|------------------------------------------|----------------------------------------------------------|--|--|--|--|
| 1 | Reporting from home and settling for the third term work | | | | |
| 2-3 | POST MOCKS AND JOINTS | | | | |
| 4-7 | REVISION | | | | |
| 7 | K.C.S.E BEGINS | | | | |