SCHEMES OF WORK 2021

COMPUTER FORM 3

TERM 1-3

COMPUTER STUDIES FORM 3 SCHEMES OF WORK – TERM 1										
W E K	LESSON	ΤΟΡΙϹ	SUB – TOPIC	OBJECTIVES	LEARNING/TEACHING ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	REMARKS		
1		OPENING	G OF SCHOO	LS						
2	1	Data Representatio n 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	Data Representatio n	DATA REPRESENTATION	By the end of the lesson, the learner should be able to Give reasons why binary system is used in computers Define bits, bytes, nibble and word	 Discussions Question and answer 	• charts	 Longhorn Computer studies Bk 3 page 24 Computer studies by 			

							Onunga and Shah page 1
	4	Data Representatio n	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
ß	1		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
	2	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 	 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

	3	"	u	 By the end of the lesson,, the learner should be able to Convert binary fraction to decimal number system Convert a decimal fraction to binary 	 Discussions Questions and answers 	 Charts Simple calculations Questions papers 	 Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page
	4	DATA REPRESENTATI ON	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
4	1	DATA REPRESENTATI ONS	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
	2				Discussions	Charts	

		DATA REPRESENTATION S	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 interchange code (EBCDIC) 	 Question and answer 	• Scientific Calculators	 Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 22- 27
	3	DATA REPRESENTATION	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
	4		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
5	1			By the end of the lesson, the learner should be able to	 Teachers demonstrates 	u	Longhorn Computer

	BINARY ARITHMETIC OPERATIONS	 Represent signed binary numbers using two's complement 	 Question and answer Group discussions 		studies Bk 3 page 27 • Computer studies by Onunga and Shah page 27
2	BINARY ADDITION	 By the end of the lesson, the learner should be able to Perform seven possible binary additions Outline the procedure for binary additions 	 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
3	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
4	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

6	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 Processing	DATA PROCESSING CYCLE	 By the end of the lesson, the learner should be able to Give the errors that influence the accuracy of data and information output Explain the errors in data processing 	 Discussion in groups Question and answer Assignments marked by the teacher 	 Flash cards Charts computer 	 Longhorn Computer studies Bk 3 page 35 Computer studies by Onunga and Shah page 33
	4	Data processing	DATA INTEGRITY	By the end of the lesson, the learner should be able to • Define data integrity	 Discussion in groups Illustrations by the teacher 	Flash cardsSimple information system	Computer studies by

				 Give the measurements of data integrity Accuracy Timelines Relevance Describe the listed data integrity measurements 	Question and answer		Onunga and Shah page 41	
7	1	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 	
	2	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 filing	 Discussion in groups Illustrations by the teacher Question and answer 	• Charts	 Computer studies by Onunga and Shah page 49 	
	3	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	 Discussion in groups Question and answer demonstration 	 database chart with relation database 	 Longhorn Computer studies Bk 3 page 40 	
	4	Data processing	CLASSIFICATION OF COMPUTER FILES	By the end of the lesson, the learner should be able to • Classify computer files	Illustration by the teacher	Floppy disketteCompact disc	 Longhorn Computer 	

				 Differentiate between logical and physical computer files 		 Computer video tape 	studies Bk 3 page 41 • Computer studies by Onunga and Shah page 50
8	1	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	 Discussions Illustration by the teacher Question and answer 	 Charts Flash cards 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 41
	2	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 file organization 	 Question and answer Brainstorming Discussions in groups 	 Floppy diskettes Compact disk Video tapes 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 42 Computer studies by Onunga and Shah page 55
	3	Data processing	ELECTRONIC DATA PROCESSING	By the end of the lesson, the learner should be able to	 Discussions in groups 	ChartsFlash cards	Longhorn Computer studies by

				 Give the data processing modes Describe (i) Online processing (ii) Real-time processing (iii) Distributed processing 	 Question and answer Illustration by the teacher 		Mburu and Chemwa Bk 3 page 43-45 • Computer studies by Onunga and Shah page 61
	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
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				COMPUTER STUDIES FORM	1 3 SCHEMES OF WORK –	TERM 2		
WEEK	LESSON	ΤΟΡΙϹ	SUB – TOPIC	OBJECTIVES	LEARNING/TEACHING ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	REMARKS
1	1	ELEMENTAR Y PROGRAM MING 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	ELEMENTAR Y PROGRAM MING 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	 Demonstration Q/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	ELEMENTAR Y PROGRAM MING 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/ADiscussion	Flash cardsCharts	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 59 	

	4	ELEMENTAR Y PROGRAM MING PRINCIPLES	PROGRAM DEVELOPMENT	By the end of the lesson, the learner should be able to • List the stages in program development • Describe (i) program	 Question and answer Discussion in groups 	 Flash cards charts 	 Computer studies by Onunga and Shah page 74-75 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 60-66
2	1	ELEMENTAR Y PROGRAM MING PRINCIPLES	PROGRAM DEVELOPMENT	(ii) program definition By the end of the lesson, the learner should be able to (i) Describe (ii) Program design (iii) Program coding (iv) program testing (v) Program implementati on and maintenance	 Demonstration Illustrations by teacher 	Computer software	 Computer studies by Onunga and Shah page 83-85
	2	ELEMENTAR Y PROGRAM MING 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	 Discussions in groups Illustrations by the teacher Question and answer 	 Chalkboard charts 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 67

				 Describe the target groups for documentation 				
	3	ELEMENTAR Y PROGRAM MING PRINCIPLES	DEVELOPMENT OF ALGORITHMS	 By the end of the lesson, the learner should be able to Define algorithm List tools used in algorithm Distinguish between pseudo code and flow charts 	 Discussion in groups Question and answer Illustration by the teacher 	 Chalkboard Charts Flash cards 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 68 	
	4	ELEMENTAR Y PROGRAM MING 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 	
3	1	ELEMENTAR Y PROGRAM MING 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 	 Charts chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 72-78 Computer studies by Onunga and Shah page 93 	
	2	ELEMENTAR Y PROGRAM	PROGRAM CONTROL STRUCTURES	By the end of the lesson, the learner should be able to Describe the use of iteration (looping) as a	 Discussion in groups 	Chartschalkboard		

		MING PRINCIPLES		 control structure Describe selection as a control structure Design a more complex algorithm 			 Computer studies by Onunga and Shah page 94 	
	3	SYSTEM DEVELOPME NT	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 	
	4	SYSTEM DEVELOPME NT	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 	
4	1	SYSTEM DEVELOPME NT	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 DEVELOPME NT	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 boardFlash cardsCharts	 Computer studies by Onunga and Shah page 170
3		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
4	SYSTEM DEVELOPME NT	Stages of system development	 By the end of the lesson, the learner should be able to State and define all the stages of system developmentGive the methods used in information gathering Describe interviews studying of available documents as used in information gathering Prepare a questionnaire Prepare and present a fait finding report 	 Illustration by the teacher Question and answer 	 Chalk board charts 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 97-104

				 Describe how automated methods are used 			
5	1	SYSTEM DEVELOPME NT	Requirements specification	By the end of the lesson, the learner should be able to Describe output specification Describe input specification Describe file/data stores Describe hardware and software requirements 	 Discussions Question and answer 	ChalkboardCharts	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 105,109
	2	SYSTEM DEVELOPME NT	System design	By the end of the lesson, the learner should be able to • Define system flowchart • Identify common flowchart symbols	 Discussions Question and answer 	ChalkboardCharts	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 109
	3	SYSTEM DEVELOPME NT	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
	4		Designing a system flowchart	By the end of the lesson, the learner should be able to	Illustration by the teacher	ChartsChalkboard	 Longhorn Computer studies

				 Write a simple book borrowing module flowchart Write cleaners information system flowchart 	 Discussion in groups 		by Mburu and Chemwa Bk 3 page 110	
6	1		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 	
	2	SYSTEM DEVELOPME NT	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 	
	3		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 	
	4		Change over strategies	By the end of the lesson, the learner should be able to	Discussions	Flash cardCharts		

			 Define the term changeover List the system change over strategies Describe three listed changeover strategies 	 Question and answer 	 chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 116
8	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	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 chart Computer Printer Chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 117
	4	System documentation	By the end of the lesson, the learner should be able to	Discussions	ChartsComputer	 Longhorn Computer studies

	Identify	Question and	by Mburu and
	comprehensive	answer	Chemwa Bk 3
	system		page 118-120
	documentation		
	details		
	Write a report on the		
	case study		
9	END (OF TERM EXAMINATION	
&			
10			

	COMPUTER STUDIES FORM 3 SCHEMES OF WORK – TERM 3											
WE EK	LES SO N	ТОРІС	SUB – TOPIC	OBJECTIVES	LEARNING/TEACHING ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	REMARKS				
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 	 Chalkboard Computer chart 	 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 	 Chalkboard Photograph computer 	 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 	 Computer Chalkboard 	 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 fundamental concepts 	 Discussions Questions and answer 	 Chalkboard Charts Computer Simple calculators 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 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 	 Discussions Question 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 display the name of a weekday when its number is provided Write a program using do-loop Write a program using FOR-NEXT LOOP	 Demonstration by the teacher Discussion Question and answer 	 Chart Chalkboard Computer printer 	 Longhorn Computer studies by Mburu and 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 	 chart computer 	 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= xⁿ given that the value of n are integers 	 Demonstration Question and answer practical 	 computer printer chart chalkboard 	 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 	 computer printer chart chalkboard 	 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 and a combo box Create a project that loads a list of items	 Discussion Demonstration Practical 	 Chart Photograph Computer chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 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	 Discussion Demonstration Practical 	 Chart Photograph Computer chalkboard 	 Longhorn Computer studies by Mburu and

							Chemwa Bk 3 page 163
	3		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	 Chart Photograph Computer chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 161
	4		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	 Demonstration Practical Discussion 	 Chart Computer chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 187-189
6	1	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	 Demonstration Practical Discussion 	 Chart Computer chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 187-189
	2		Defining attributes	By the end of the lesson, the learner should be able to	 Question and answer Practical Demonstration 	 computer chart chalkboard 	 Longhorn Computer studies by

			 Define a foreign key Distinguish between an entity and attributes Create one to many relationships 	discussions		Mburu and Chemwa Bk 3 page 203-204
	3	File table structure	By the end of the lesson, the learner should be able to • Create a table • Set primary key and foreign key	 Demonstration Discussion Practical 	ComputerChartChalkboard	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 217
	4	Enforcing Referential integrity	By the end of the lesson, the learner should be able to • Enforce referential integrity between tables • Normalize table	DemonstrationDiscussionPractical	 Computer Chart Chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 217
7	1	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 	 Computer Chart Chalkboard 	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 210
	2	Creating reports			Chart	

			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 	• computer	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 211
	3	Automating database	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 	Chartcomputer	 Longhorn Computer studies by Mburu and Chemwa Bk 3 page 212
	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
8-9			REVISION AND END TERM EX	KAMS		