

Computer Studies Schemes of Work

FORM : ONE
TERM : 1

TEACHER:

WK	LESSON	TOPIC/ SUB-TOPIC	OBJECTIVES	TEACHING METHOD	TEACHING/ LEARNING RESOURCES	REMARKS
3	1	Introduction to computers	By the end of the lesson, the learner should be able to: i) define the terms: -computer -data -information -information communication system ii) explain the parts of a computer	- Discussion method - Question and answer method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa 1/Ed (2004) P 1-4 Nairobi Longhorn Publishers Aid Chart on main parts of a computer system	
	2 & 3	Classification of computers	By the end of the lesson, the learner should be able to: i) describe the following computers - supercomputer - mainframe - minicomputer - microcomputer ii) classify computer according to purpose	- Brief lecture method - Question and answer method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa 1/Ed (2004) P 4-8 Nairobi Longhorn Publishers Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah 4/Ed (2005) P 9-14 Nairobi, SunLitho	
4	1	Classification according to	By the end of the lesson, the learner should be able to: i) explain of digital computers	- Discussion method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and	

		functionality	ii) explain of analog computers iii) explain on hybrid computers <u>Assignment</u> Attempt review questions 1.1 No. 1,2.....8	- Question and answer method	G. Chemwa 1/Ed (2004) P 8-9 Nairobi Longhorn Publishers	
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4	2 & 3	Development of computers	By the end of the lesson, the learner should be able to: i) name the advantages of using computers ii) outline where computers are used iii) explain the five generation of computers namely: - first generation - second generation - third generation - forth generation -fifth generation	- Brief lecture method - Question and answer method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 11-15 Longhorn Publishers Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 6-8	
	4	The computer laboratory	By the end of the lesson, the learner should be able to: i) outline the factors to be considered when preparing computer laboratory ii) explain on safety precaution and practices	- Discussion method - Question and answer method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 17-19	

5	1	Practical hands-on skill	<p>By the end of the lesson, the learner should be able to:</p> <p>i) define the terms:</p> <ul style="list-style-type: none"> ▪ cold booting ▪ warm booting <p>ii) explain on post process</p> <p>iii) explain the procedure of shutting down the computer</p>	<p>- Question and answer method</p> <p>- Discussion method</p>	<p>Ref</p> <p>Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 21-22</p>	
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5	2 & 3	Keyboard layout	By the end of the lesson, the learner should be able to: i) identify the keys: - alphanumeric keys - function keys ii) use the following keys: - cursor movement and editing keys - special PC operation keys - numeric keypads keys iii) explain the practical keyboard skills	- Discussion method - Question and answer method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 23-26 Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 32-37 Aid Computer System	
6	1	Mouse skills	By the end of the lesson, the learner should be able to: i) give the purpose of mouse pointer ii) outline the rules observed when using a mouse iii) explain the terminologies associated with the use of mouse - clicking - double clicking - right clicking - drag and drop	- Brief lecture method - Question and answer method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 27-28 Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 39-40	

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6	2 & 3	COMPUTER SYSTEM Description of a computer system	By the end of the lesson, the learner should be able to: i) name three main components of a computer system ii) list data capture devices iii) explain the pointing devices	- Discussion method - Question and answer method	Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 30-33 Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 43-50	
7	1,2 & 3		<i>MID TERM EXAMS, THEN SCHOOL BREAK FOR HALF TERM/ RECESS</i>			
8	1	Scanning devices	By the end of the lesson, the learner should be able to: i) name two types of scanners ii) explain the scanning devices such as: - optical scanners - optical mark recognition (OMR) -optical bar recognition (OBR) - optical character recognition (OCR) -magnetic scanners <u>Assignment</u> The learner to read and write notes on the central processing unit	- Question and answer method - Discussion method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 33-34 Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 58-63 Aid - Scanner	

			Ref: Longhorn Bk 1 Computer studies P 37-39		- Bar cords	
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8	2 & 3	Speech recognition or voice input	By the end of the lesson, the learner should be able to: i) define the term speech recognition or voice input ii) outline the use of speech input iii) explain the limitation of speech input	- Question and answer method - Discussion method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 35-37 Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 56-57	
9	1	The central processing unit (CPU)	By the end of the lesson, the learner should be able to: i) define the term central processing unit ii) explain the components of central processing unit iii) classify the computer memory and explain read only memory (ROM)	- Question and answer method - Discussion method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 37-40	

					Ref Computer Studies Bk 1 By Dr. John Onunga &Renu Shah P 69-73	
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9	2 & 3	Main memory (primary storage or working storage)	By the end of the lesson, the learner should be able to: i) explain the main memory namely: -random access memory -special purpose memory ii) give the characteristics and types of: - random access memory iii) explain the memory capacity <u>Assignment</u> The learner to read and write notes on output devices Ref: Longhorn Bk 1 Computer Studies P 45-47	- Question and answer method - Discussion method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 40-41 Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 73-75	
10	1	Speech recognition or voice input	By the end of the lesson, the learner should be able to: i) define the term speech recognition or voice input ii) outline the use of speech input iii) explain the limitation of speech input	- Discussion method - Question and answer method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 35-37 Ref Computer Studies Bk 1 By Dr. John Onunga &Renu Shah P 56-57	

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10	1	Overall functional organizational of the CPU	By the end of the lesson, the learner should be able to: i) explain three types of buses - control bus - address bus - data bus ii) describe types of processors and their clock speeds	- Question and answer method - Discussion method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 42-43 Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 49-51	

	2 & 3	Output devices	<p>By the end of the lesson, the learner should be able to:</p> <ul style="list-style-type: none"> i) define the term output devices ii) name two types of output e.g. <ul style="list-style-type: none"> - softcopy - hardcopy iii) explain two types of output devices namely: <ul style="list-style-type: none"> - softcopy output devices - hardcopy output devices iii) describe types of graphical adapters e.g. <ul style="list-style-type: none"> - hercules graphics card - color graphics adapter - enhanced graphics adapter - super video graphics array - liquid crystal display 	<ul style="list-style-type: none"> - Question and answer method - Discussion method 	<p>Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 45-47</p> <p>Ref Computer Studies Bk 1 By Dr. john Onunga & Renu Shah P 79-83</p> <p>Aid Computer CRT monitor and Flat panel screen</p>	
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11	1	Sound output and hard copy output devices	By the end of the lesson, the learner should be able to: i) explain the examples of: -sound output devices -light-emitting diodes ii) describe examples of hard copy devices namely: - impact printers - non-impact printers - plotters	- Question and answer method - Discussion method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 47-50 Ref Computer Studies Bk 1 By Dr.John Onunga & Renu Shah P 85-94 Aid Computer system and projector on plotters	
	2 & 3	Secondary (auxiliary) storage devices and media	By the end of the lesson, the learner should be able to: i) define the terms auxiliary media ii) name disadvantages of using magnetic tape, and care taken to magnetic storage media iii) explain various removable storage devices such as: - magnetic tape - magnetic disk - zip disk - jaz disk	- Question and answer method - Discussion method	Ref Longhorn Bk 1 Computer Studies By S. Mburu and G. Chemwa P 51-54 Ref Computer Studies Bk 1 By Dr. John Onunga & Renu Shah P 96-104	

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12 and 13		End of Term Examination	By the end of the test lesson, the learner should be able to: i. answer all question in the test ii. score at least 75% of the questions correctly	<p>Pre-test activities</p> <ul style="list-style-type: none"> - learners are introduced to the purpose of the test and encouraged to put forth their test efforts - teacher ensure proper seating arrangements, adequate lighting and a quiet environment - test papers are distributed to learners - instructions are clearly given to learners and corrections made on possible errors such as typographical errors - total time is announce - attempt all the questions in the test sheet <p>Post test activities</p> <ul style="list-style-type: none"> - the teacher invigilate the exam - time briefing is done at interval of 30 minutes - answer sheets are collected - getting feedback from students about the exam 	Learner to: i. spread out in an orderly manner before getting the question paper ii. maintain total silence iii. receive the question paper from the invigilator (teacher) and write their name. iv. read the instructions and attempt all the questions in the test sheet as instructed v. hand their scripts (answer sheet) after the session is over vi. give the feedback after they have collected the scripts	

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