

FOR MORE CUSTOMIZED SCHEMES OF WORK CALL OR WHATSAAP SIR DERRICK ON 0701256166

SCHEMES OF WORK 2022

COMPUTER FORM 4

TERM 1-3

FOR MORE CUSTOMIZED SCHEMES OF WORK CALL OR WHATSAAP SIR DERRICK ON 0701256166

COMPUTER STUDIES FORM 4 SCHEMES OF WORK – TERM 1								
WEEK	LESSON	TOPIC	SUB - TOPIC	OBJECTIVES	LEARNING/TEACHING ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	REMARKS
1	Reporting from home and settling for the first term							
2	1		Definition of networking terms	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Define the term computer network • Explain the term data communication 	<ul style="list-style-type: none"> • Q/A discussion 	<ul style="list-style-type: none"> • Newspaper • Letters • books 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 1-5 • Computer studies by Onunga & Rena Shah Bk 4 page 1-5 	
	2		Networking	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain the types of computer n/w • Discuss the purpose of n/w 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Handouts • Books • Internet • Working Pc 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 5-9 • Computer studies by Onunga & Rena Shah Bk 4 page 6 	
	3			By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain the demerits of n/w 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Twisted cables • Internet 5 • Working pc 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 10-17 • Computer studies by 	

							Onunga & Rena Shah Bk 4 page 6	
	4		Elements of networking	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Discuss communication with cables 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Handouts • Books • Internet • Working PC 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 17-22 • Computer studies by Onunga & Rena Shah Bk 4 page 9-11 	
3	1		Elements of networking	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain the types of wireless communication 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Books • Internet • Working PC 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 23-28 • Computer studies by Onunga & Rena Shah Bk 4 page 17-22 	
	2		Communication Devices	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Define the term communication devices 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Letters • Software • Working Pc 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 30-33 	

				<ul style="list-style-type: none"> Explain the work of: Modems, network cards, hubs 			<ul style="list-style-type: none"> Computer studies by Onunga & Rena Shah Bk 4 page 20 	
	3		Network Software	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Discuss the different network s/w: O/S, protocols 	<ul style="list-style-type: none"> Q/A demonstration practical 	<ul style="list-style-type: none"> Handouts Books Working PC 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 30-31 	
	4		Types of computer networks	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Discuss the three types of computer networks LAN,MAN, WAN 	<ul style="list-style-type: none"> Q/A demonstration practical 	<ul style="list-style-type: none"> Internet Books Working PC 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 4-5 Computer studies by Onunga & Rena Shah Bk 4 page 22 	
4	1		Network topologies	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Define the term network topology Differentiate btw. Logical and physical topologies 	Q/A demonstration practical	<ul style="list-style-type: none"> Internet Books Working PC 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 33-34 Computer studies by Onunga & Rena 	

							Shah Bk 4 page 16	
	2		Network Topologies	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain a star topology 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working PC 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 35-36 • Computer studies by Onunga & Rena Shah Bk 4 page 18 	
	3		Network Topologies	By the end of the lesson the learner should be able to <ul style="list-style-type: none"> • Explain a Mesh Topology • Tree Topology 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Working PC • Handouts 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 37-38 • Computer studies by Onunga & Rena Shah Bk 4 page 19 	
	4		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain Application areas of ICT • Financial system 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working PC 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 37-39 	

							<ul style="list-style-type: none"> • Computer studies by Onunga & Rena Shah Bk 4 page 27 	
5	1		Application areas of ICT	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Explain application areas of ICT in common system 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working PC 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 40-41 • Computer studies by Onunga & Rena Shah Bk 4 page 27 	
	2		Application of ICT	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Explain application areas of ICT in retail system • Explain application areas of ICT in Reservation system 	Q/A demonstration practical	<ul style="list-style-type: none"> • Internet • Books • Working PC 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 40-59 • Computer studies by Onunga & Rena Shah Bk 4 page 28 	

	3		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain Application areas of ICT in Education 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working PC 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 41-58 • Computer studies by Onunga & Rena Shah Bk 4 page 49 	
	4	MID TERM BREAK						
6	1-2		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain Application of ICT in Education System 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 41-58 • Computer studies by Onunga & Rena Shah Bk 4 page 50 	

	3		Application areas of ICT	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Explain Application areas of ICT in industrial System 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working PC 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 41-58 • Computer studies by Onunga & Rena Shah Bk 4 page 39 	
	4		Application areas of ICT	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Explain application areas of ICT in entertainment and virtual reality 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working Pc 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 61,64-65 • Computer studies by Onunga & Rena Shah Bk 4 page 51/55 	
7	1		Application areas of ICT	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Explain application areas of ICT in entertainment and virtual reality 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working Pc 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. 	

							Chemwa page 61,64-65	
	2		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain application areas of ICT in marketing and law enforcement 	<ul style="list-style-type: none"> • Q/A demonstration practical 	<ul style="list-style-type: none"> • Internet • Books • Working Pc 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 63 	
	3		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Explain application area of ICT in transportation system 	<ul style="list-style-type: none"> • Q/A Discussion 	<ul style="list-style-type: none"> • Internet • Books • Working Pc 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 44-46 • Computer studies by Onunga & Rena Shah Bk 4 page 47 	
	4		Application areas of ICT	By the end of the lesson, the learner should be able to	<ul style="list-style-type: none"> • Q/A Discussion 	<ul style="list-style-type: none"> • Internet • Books • Journals 	<ul style="list-style-type: none"> • Longhorn Computer studies by 	

				<ul style="list-style-type: none"> Explain Application areas of ICT in Library System 			S.Mburu and C. Chemwa page 44	
IMPACT OF INFORMATION AND COMMUNICATION TECHNOLOGY ON SOCIETY								
8	1		<p>Application areas of ICT in the society</p> <p>Impact of ICT in the society</p>	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Discuss effects on <ol style="list-style-type: none"> Employment Automated production <p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Discuss effects if ICT on work's health State the characteristics of future trends in ICT Discuss rapid evolution in ICT 	<ul style="list-style-type: none"> Q/A demonstration practical Q/A Discussion 	<ul style="list-style-type: none"> Letters Working PC Newspapers Handouts Journals 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 44 Longhorn Computer studies by S.Mburu and C. Chemwa page 44 Computer studies by Onunga & Rena Shah Bk 4 page 60 	
	2		Impact of ICT in the society	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Discuss effects of ICT on <ol style="list-style-type: none"> Environmental issues Cultural effects 	<ul style="list-style-type: none"> Q/A Discussion 	<ul style="list-style-type: none"> Handouts Journals Videos Photographs 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 44 	

							<ul style="list-style-type: none"> • Computer studies by Onunga & Rena Shah Bk 4 page 63 	
	3		Evolution of computer systems	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Discuss Artificial intelligence 	<ul style="list-style-type: none"> • Q/A Discussion 	<ul style="list-style-type: none"> • Class Register • Accounts book • Journals 	<ul style="list-style-type: none"> • 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	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Explain expanded information superhighway 	<ul style="list-style-type: none"> • Q/A Demonstration Practical 	<ul style="list-style-type: none"> • handouts • class register • accounts 	<ul style="list-style-type: none"> • Longhorn Computer studies by S.Mburu and C. Chemwa page 79-80 	
9-10		END TERM EXAM						

COMPUTER STUDIES FORM 4 SCHEMES OF WORK – TERM 2								
CAREER OPPORTUNITIES IN ICT								
WE EK	LES SON	TOPIC	SUB - TOPIC	OBJECTIVES	LEARNING/TEACHING ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	REMARKS
1	Reporting from home and settling for the first term work							
2	1		Career opportunities in ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Discuss the roles of a system analyst, a chief programmer 	<ul style="list-style-type: none"> Q/A Discussion 	<ul style="list-style-type: none"> Books Journals 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 79 Computer studies by Onunga & Rena Shah Bk 4 page 95 	
	2-3					<ul style="list-style-type: none"> Books 		

			Career opportunities in ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Discuss functions of computer programmer and d/b administrator 	<ul style="list-style-type: none"> Q/A Demonstration Practical 	<ul style="list-style-type: none"> Handouts Newspapers Realia 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 81 Computer studies by Onunga & Rena Shah Bk 4 page 97 	
	4		Career Opportunities in ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Discuss the functions of a s/w engineer and a computer engineer 	<ul style="list-style-type: none"> Q/A demonstration Practical 	<ul style="list-style-type: none"> Books Working PC 	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Discuss the function of a web designer, web administrator and computer operator 	<ul style="list-style-type: none"> Q/A demonstration Practical 	<ul style="list-style-type: none"> Books Handouts Journals 	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Discuss the function of 	Learner to Q/A discussion	<ul style="list-style-type: none"> Books Realia 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. 	

				computer technician and data processing manager			Chemwa page 78	
	4		Career opportunities in ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Discuss other educational opportunities in the various institutions 	<ul style="list-style-type: none"> Q/A Discussion 	<ul style="list-style-type: none"> Books Newspapers 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 83-84 	
4	1		Identification of further Educational opportunities	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Explain the different courses offered in universities, polytechnics, middle level colleges 	<ul style="list-style-type: none"> Q/A Discussion 	<ul style="list-style-type: none"> Books 	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Identify a problem Definition of a problem 	<ul style="list-style-type: none"> Q/A discussion 	<ul style="list-style-type: none"> Books Sampled projects 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Identify the number of manual documents that are needed for the system given 	<ul style="list-style-type: none"> Q/A observation 	<ul style="list-style-type: none"> Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 83-84 Computer studies by Onunga & Rena Shah Bk 4 page 106-120 	
5	1-2		Fact finding	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Design a sample interview guideline for the system given 	<ul style="list-style-type: none"> Q/A practical 	<ul style="list-style-type: none"> Sampled projects Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 83-84 	

	3		Fact finding	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Design a sample questionnaire for the system giver 	<ul style="list-style-type: none"> Q/A practical 	<ul style="list-style-type: none"> Sampled projects books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 93-94 Computer studies by Onunga & Rena Shah Bk 4 page 122 	
	4	MID TERM BREAK						
6	1-2		System design <ul style="list-style-type: none"> Preliminary design phase 	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Identify the flowchart symbols Design a simple flowchart for the system 	<ul style="list-style-type: none"> Q/A practical 	<ul style="list-style-type: none"> Sampled projects Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 94-95 	
	3-4		System design <ul style="list-style-type: none"> Preliminary design phase 	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Design a complex flowchart for the system 	<ul style="list-style-type: none"> Q/A practical 	<ul style="list-style-type: none"> Sampled projects Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 94-95 	
7	1		Detailed design					

				By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Design the outputs for the system 	Q/A practical	<ul style="list-style-type: none"> Sampled projects Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 94-95 	
	2		Detailed design	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Design input interface for the system 	<ul style="list-style-type: none"> Q/A practical 	<ul style="list-style-type: none"> Sampled projects Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 96-100 	
	3		Files and data stores design	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Design a database 	<ul style="list-style-type: none"> Q/A practical 	<ul style="list-style-type: none"> Sampled projects Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 100-101 	
	4		Creating relationships	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Create relationships 	<ul style="list-style-type: none"> Q/A practical 	<ul style="list-style-type: none"> Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 103 	
8	1		Hardware and software requirements	By the end of the lesson, the learner should be able to	<ul style="list-style-type: none"> Q/A discussion 	<ul style="list-style-type: none"> Books Realia 	<ul style="list-style-type: none"> Longhorn Computer 	

				<ul style="list-style-type: none"> Identify h/w and s/w requirements for the system 			<p>studies by S.Mburu and C. Chemwa page 103</p>	
	2		<p>Constructing information management system given</p> <ul style="list-style-type: none"> Designing inputs 	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Design inputs 	<ul style="list-style-type: none"> practical 	<ul style="list-style-type: none"> internet sampled projects books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 86-153 	
	3		<p>Designing outputs</p>	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Design outputs 	<ul style="list-style-type: none"> practical 	<ul style="list-style-type: none"> books internet sampled projects 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 86-153 	
	4		<ul style="list-style-type: none"> Designing 	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Design various management systems 	<ul style="list-style-type: none"> practical 	<ul style="list-style-type: none"> Books 	<ul style="list-style-type: none"> Longhorn Computer studies by S.Mburu and C. Chemwa page 86-153 	
9-10	END TERM EXAM							

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COMPUTER STUDIES FORM 4 SCHEMES OF WORK – TERM 3

1 Reporting from home and settling for the third term work

2-3 K.C.S.E PAST PAPERS, MOCKS AND JOINTS

4-7 REVISION

7 K.C.S.E BEGINS

FOR MORE CUSTOMIZED SCHEMES OF WORK CALL OR WHATSAAP SIR DERRICK ON 0701256166