

COMPUTER, F4, T1

REFERENCES: Longhorn Secondary, Computer Studies, Foundation of Computer

W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1		REPORTING AND REVISION OF LAST TERM'S EXAMS						
2	1	Definition of networking terms	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	Newspaper Letters books	Longhorn Computer studies page 1-5 Computer studies by Onunga page 1-5	
	2-3	Networking	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	Handouts Books Internet Working Pc	Longhorn Computer studies page 5-9 Computer studies by Onunga 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 page 10-17 Computer studies page 6	
3	1	Elements of networking	Elements of networking	By the end of the lesson, the learner should be able to Discuss communication with cables	Q/A demonstration practical	Handouts Books Internet Working PC	Longhorn Computer studies page 17-22 Computer studies page 9-11	
	2-3	Elements of networking	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	Books Internet Working PC	Longhorn Computer studies page 23-28 Computer studies page 17-22	
4	1	Communication Devices	Communication Devices	By the end of the lesson, the learner should be able to Define the term communication devices	Q/A demonstration practical	Letters Software Working Pc	Longhorn Computer studies page 30-33 Computer studies by Onunga page 20	

				Explain the work of: Modems, network cards, hubs				
	2-3	Network Software	Network Software	By the end of the lesson, the learner should be able to Discuss the different network s/w: O/S, protocols	Q/A demonstration practical	Handouts Books Working PC	Longhorn Computer studies page 30-31	
	4	Types of computer networks	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	Internet Books Working PC	Longhorn Computer studies page 4-5 Computer studies by Onunga page 22	
5	1	Network topologies	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	Internet Books Working PC	Longhorn Computer studies page 33-34 Computer studies by Onunga page 16	
	2-3	Network Topologies	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	Internet Books Working PC	Longhorn Computer studies page 35-36 Computer studies by Onunga page 18	
	4	Network Topologies	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 PC Handouts	Longhorn Computer studies by page 37-38 Computer studies by Onunga page 19	

2. APPLICATION AREAS OF INFORMATION AND COMMUNICATION TECHNOLOGY

6	1	Application areas of ICT	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 page 37-39 Computer studies by Onunga page 27	
	2-3	Application areas of ICT	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 page 40-41 Computer studies by Onunga page 27	

	4	Application of ICT	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 page 40-59 Computer studies by Onunga page 28	
7	1	Application areas of ICT	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	Internet Books Working PC	Longhorn Computer studies page 41-58 Computer studies by Onunga page 49	
	2-3	Application areas of ICT	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	Internet Books Working	Longhorn Computer studies by page 41-58 Computer studies by Onunga page 50	
	4	Application areas of ICT	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 page 41-58 Computer studies by Onunga page 39	
8	1	Application areas of ICT	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 page 61,64-65 Computer studies by Onunga page 51/55	
	2-3	Application areas of ICT	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	Internet Books Working Pc	Longhorn Computer studies page 63	
	4	Application areas of ICT	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 page 44-46 Computer studies by Onunga page 47	
	1					Internet		

		Application areas of ICT	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	Books Journals	Longhorn Computer studies page 44	
IMPACT OF INFORMATION AND COMMUNICATION TECHNOLOGY ON SOCIETY								
9	2-3	Application areas of ICT in the society	Application areas of ICT in the society	By the end of the lesson, the learner should be able to Discuss effects on Employment Automated production	Q/A demonstration practical	Letters Working PC Newspapers	Longhorn Computer studies page 44	
	4	Impact of ICT in the society	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	Handouts Journals	Longhorn Computer studies page 44 Computer studies by Onunga page 60	
10	1	Impact of ICT in the society	Impact of ICT in the society	By the end of the lesson, the learner should be able to Discuss effects of ICT on Environmental issues Cultural effects	Q/A Discussion	Handouts Journals Videos Photographs	Longhorn Computer studies page 44 Computer studies by Onunga page 63	
	2-3	Evolution of computer systems	Evolution of computer systems	By the end of the lesson, the learner should be able to Discuss Artificial intelligence	Q/A Discussion	Class Register Accounts book Journals	Longhorn Computer studies page 52-53 Computer studies by Onunga page 81	
	4	Evolution of Computer systems	Evolution of Computer systems	By the end of the lesson, the learner should be able to Explain expanded information superhighway	Q/A Demonstration Practical	handouts class register accounts	Longhorn Computer studies by page 79-80	
11-13		TOPICAL REVISION						
14		END OF TERM EXAMS						
15		PREPARATION OF REPORTS AND CLOSING						

COMPUTER, F4, T2

REFERENCES: Longhorn Secondary, Computer Studies, Foundation of Computer

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1		REPORTING AND REVISION OF LAST TERM'S EXAMS						
2	1	Career opportunities in ICT	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	Books Journals	Longhorn Computer studies page 79 Computer studies by Onunga page 95	
	2-3	Career opportunities in ICT	Career opportunities in ICT	By the end of the lesson, the learner should be able to Discuss functions of computer programmer and d/b administrator	Q/A Demonstration Practical	Books Handouts Newspapers Realia	Longhorn Computer studies page 81 Computer studies by Onunga page 97	
	4	Career Opportunities in ICT	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 page 80	
3	1	Career opportunities in ICT	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	Books Handouts Journals	Longhorn Computer studies page 81	
	2-3	Career opportunities in ICT	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 page 78	
	4	Career opportunities in ICT	Career opportunities in ICT	By the end of the lesson, the learner should be able to Discuss other educational opportunities in the various institutions	Q/A Discussion	Books Newspapers	Longhorn Computer studies page 83-84	
4	1	Identification of further Educational opportunities	Identification of further Educational opportunities	By the end of the lesson, the learner should be able to Explain the different courses offered in universities,	Q/A Discussion	Books	Longhorn Computer studies page 83-84	

				polytechnics, middle level colleges			Computer studies by Onunga page 106-110	
	2-3	Developing project using ms access d/base Description of a given system	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 page 83-84 Computer studies by Onunga page 106-112	
	4	Fact finding	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 page 83-84 Computer studies by Onunga page 106-120	
5	1	Fact finding	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 projects Books	Longhorn Computer studies page 83-84	
	2-3	Fact finding	Fact finding	By the end of the lesson, the learner should be able to Design a sample questionnaire for the system giver	Q/A practical	Sampled projects books	Longhorn Computer studies page 93-94 Computer studies by Onunga page 122	
	4	System design Preliminary design phase	System design Preliminary 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 projects Books	Longhorn Computer studies page 94-95	
6	1	System design Preliminary design phase	System design Preliminary 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 projects Books	Longhorn Computer studies page 94-95	
	2-3	Detailed design	Detailed design	By the end of the lesson, the learner should be able to Design the outputs for the system	Q/A practical	Sampled projects Books	Longhorn Computer studies page 94-95	
	4	Detailed design	Detailed design	By the end of the lesson, the learner should be able to	Q/A practical © Education Plus Agencies	Sampled projects Books		

				Design input interface for the system			Longhorn Computer studies page 96-100	
7	1	Files and data stores design	Files and data stores design	By the end of the lesson, the learner should be able to Design a database	Q/A practical	Sampled projects Books	Longhorn Computer studies page 100-101	
	2-3	Creating relationships	Creating relationships	By the end of the lesson, the learner should be able to Create relationships	Q/A practical	Books	Longhorn Computer studies page 103	
	4	Hardware and software requirements	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 page 103	
8	1,2, 3,4	Constructing information management system given Designing inputs	Constructing information management system given Designing inputs	By the end of the lesson, the learner should be able to Design inputs	practical	internet sampled projects books	Longhorn Computer studies page 86-153	
9	1,2, 3,4	Designing outputs	Designing outputs	By the end of the lesson, the learner should be able to Design outputs	practical	books internet sampled projects	Longhorn Computer studies page 86-153	
10		Designing	Designing	By the end of the lesson, the learner should be able to Design various management systems	practical	Books	Longhorn Computer studies page 86-153	
11 & 12		TOPICAL REVISION						
13		MID YEAR EXAMS						
14		PREPARATION OF REPORTS AND CLOSING						

COMPUTER, F4, T3

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W K	LS N	TOPIC	SUB-TOPIC	OBJECTIVES	L/ACTIVITIES	L/T AIDS	REFERENCE	REMARKS
1		REPORTING AND REVISION OF LAST TERM'S EXAMS						
2-3		POST MOCKS						
4-7		TOPICAL REVISION						
8		K.C.S.E EXAMS						