

# **SCHEMES OF WORK 2022**

## **COMPUTER FORM 4**

**This PDF consists of part of the schemes for the named class.**

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**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"> <li>Define the term computer network</li> <li>Explain the term data communication</li> </ul>	<ul style="list-style-type: none"> <li>Q/A discussion</li> </ul>	<ul style="list-style-type: none"> <li>Newspaper</li> <li>Letters</li> <li>books</li> </ul>	<ul style="list-style-type: none"> <li>Longhorn Computer studies by S.Mburu and C. Chemwa page 1-5</li> <li>Computer studies by Onunga &amp; Rena Shah Bk 4 page 1-5</li> </ul>	
	2		Networking	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>Explain the types of computer n/w</li> <li>Discuss the purpose of n/w</li> </ul>	<ul style="list-style-type: none"> <li>Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>Handouts</li> <li>Books</li> <li>Internet</li> <li>Working Pc</li> </ul>	<ul style="list-style-type: none"> <li>Longhorn Computer studies by S.Mburu and C. Chemwa page 5-9</li> <li>Computer studies by Onunga &amp; Rena Shah Bk 4 page 6</li> </ul>	
	3			By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>Explain the demerits of n/w</li> </ul>	<ul style="list-style-type: none"> <li>Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>Twisted cables</li> <li>Internet 5</li> <li>Working pc</li> </ul>	<ul style="list-style-type: none"> <li>Longhorn Computer studies by S.Mburu and C. Chemwa page 10-17</li> </ul>	

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

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

				<ul style="list-style-type: none"> <li>Differentiate btw. Logical and physical topologies</li> </ul>			<p>Chemwa page 33-34</p> <ul style="list-style-type: none"> <li>Computer studies by Onunga &amp; Rena Shah Bk 4 page 16</li> </ul>	
	2		Network Topologies	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> <li>Explain a star topology</li> </ul>	<ul style="list-style-type: none"> <li>Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>Internet</li> <li>Books</li> <li>Working PC</li> </ul>	<ul style="list-style-type: none"> <li>Longhorn Computer studies by S.Mburu and C. Chemwa page 35-36</li> <li>Computer studies by Onunga &amp; Rena Shah Bk 4 page 18</li> </ul>	
	3		Network Topologies	<p>By the end of the lesson the learner should be able to</p> <ul style="list-style-type: none"> <li>Explain a Mesh Topology</li> <li>Tree Topology</li> </ul>	<ul style="list-style-type: none"> <li>Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>Working PC</li> <li>Handouts</li> </ul>	<ul style="list-style-type: none"> <li>Longhorn Computer studies by S.Mburu and C. Chemwa page 37-38</li> <li>Computer studies by Onunga &amp; Rena Shah Bk 4 page 19</li> </ul>	
	4		Application areas of ICT			<ul style="list-style-type: none"> <li>Internet</li> </ul>		

				<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> <li>• Explain Application areas of ICT</li> <li>• Financial system</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>• Books</li> <li>• Working PC</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 37-39</li> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 27</li> </ul>	
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"> <li>• Explain application areas of ICT in common system</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working PC</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 40-41</li> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 27</li> </ul>	

	2		Application of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>• Explain application areas of ICT in retail system</li> <li>• Explain application areas of ICT in Reservation system</li> </ul>	Q/A demonstration practical	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working PC</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 40-59</li> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 28</li> </ul>	
	3		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>• Explain Application areas of ICT in Education</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working PC</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 41-58</li> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 49</li> </ul>	
	4	<b>MID TERM BREAK</b>						
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"> <li>• Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C.</li> </ul>	

				<ul style="list-style-type: none"> <li>• Explain Application of ICT in Education System</li> </ul>			<p>Chemwa page 41-58</p> <ul style="list-style-type: none"> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 50</li> </ul>	
	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"> <li>• Explain Application areas of ICT in industrial System</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working PC</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 41-58</li> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 39</li> </ul>	
	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"> <li>• Explain application areas of ICT in entertainment and virtual reality</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working Pc</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 61,64-65</li> <li>• Computer studies by Onunga &amp; Rena</li> </ul>	

							Shah Bk 4 page 51/55	
7	1		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>• Explain application areas of ICT in entertainment and virtual reality</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working Pc</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 61,64-65</li> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 51/55</li> </ul>	
	2		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>• Explain application areas of ICT in marketing and law enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A demonstration practical</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working Pc</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 63</li> </ul>	
	3		Application areas of ICT	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>• Explain application area of ICT in transportation system</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Working Pc</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 44-46</li> </ul>	

							<ul style="list-style-type: none"> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 47</li> </ul>	
	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"> <li>• Explain Application areas of ICT in Library System</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Internet</li> <li>• Books</li> <li>• Journals</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 44</li> </ul>	
<b>IMPACT OF INFORMATION AND COMMUNICATION TECHNOLOGY ON SOCIETY</b>								

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"> <li>• Discuss effects on             <ol style="list-style-type: none"> <li>(i) Employment</li> <li>(ii) Automated production</li> </ol> </li> </ul> <p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> <li>• Discuss effects if ICT on work's health</li> <li>• State the characteristics of future trends in ICT</li> <li>• Discuss rapid evolution in ICT</li> </ul>	<ul style="list-style-type: none"> <li>• Q/A demonstration practical</li> <li>• Q/A Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Letters</li> <li>• Working PC</li> <li>• Newspapers</li> <li>• Handouts</li> <li>• Journals</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 44</li> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 44</li> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 60</li> </ul>	
	2		<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"> <li>• Discuss effects of ICT on             <ol style="list-style-type: none"> <li>(i) Environmental issues</li> <li>(ii) Cultural effects</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>• Q/A Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Handouts</li> <li>• Journals</li> <li>• Videos</li> <li>• Photographs</li> </ul>	<ul style="list-style-type: none"> <li>• Longhorn Computer studies by S.Mburu and C. Chemwa page 44</li> <li>• Computer studies by Onunga &amp; Rena Shah Bk 4 page 63</li> </ul>	

	3		Evolution of computer systems	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>Discuss Artificial intelligence</li> </ul>	<ul style="list-style-type: none"> <li>Q/A Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Class Register</li> <li>Accounts book</li> <li>Journals</li> </ul>	<ul style="list-style-type: none"> <li>Longhorn Computer studies by S.Mburu and C. Chemwa page 52-53</li> <li>Computer studies by Onunga &amp; Rena Shah Bk 4 page 81</li> </ul>	
	4		Evolution of Computer systems	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> <li>Explain expanded information superhighway</li> </ul>	<ul style="list-style-type: none"> <li>Q/A Demonstration Practical</li> </ul>	<ul style="list-style-type: none"> <li>handouts</li> <li>class register</li> <li>accounts</li> </ul>	<ul style="list-style-type: none"> <li>Longhorn Computer studies by S.Mburu and C. Chemwa page 79-80</li> </ul>	
9-10		END TERM EXAM						