Dennis

SCHEME OF WORK COMPUTER STUDIES FORM 4 2022

TERM I ENDARASHA BOYS

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **T/L ACTIVITIES** | **T/L AIDS** | **REFERENCE** | **REMARKS** |
| **2** | 1 | Introduction to networking and data communication | 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 | Definition of terms Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 1-4 |  |
|  | 2 | Introduction to networking and data communication | Networking Networking | By the end of the lesson, the learner should be able to: Explain the types of computer network Discuss the purpose of networking | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 4-5 |  |
|  | 3-4 | Introduction to networking and data communication | Networking Elements of networking | By the end of the lesson, the learner should be able to:  Explain the limitations of networking  Discuss data communication media | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 8-9 Longhorn Computer Studies by S.Mburu and C.Chemwa page 10-23 |  |
| **3** | 1 | Introduction to networking and data communication | Elements of networking | By the end of the lesson, the learner should be able to:  Explain the communication devices | Explaining Demonstration Discussions | Newspaper Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 23-29 |  |
|  | 2 | Introduction to networking and data communication | Elements of networking | By the end of the lesson, the learner should be able to:  Discuss the networking softwares | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 30-33 |  |
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|  | 3-4 | Introduction to networking and data communication | Elements of networking Network topologies Physical topologies- star topology | By the end of the lesson, the learner should be able to: Explain the data signal Define network topologies  Discuss the logical topologies  Explain star topologies Discuss the advantages and disadvantages of star topologies | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 33 |  |
| **4** | 1 | Introduction to networking and data communication | Bus topology | By the end of the lesson, the learner should be able to:  Explain bus topologies Discuss the advantages and disadvantages of bus topologies | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page |  |
| 2 | Introduction to networking and data communication | Ring topology | By the end of the lesson, the learner should be able to:  Explain ring topologies Discuss the advantages and disadvantages of ring topologies | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page |  |
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|  | 3-4 | Introduction to networking and data communication Introduction to networking and data communication Application areas of information and communication technology (ICT) | Mesh topology Network securities Introduction and definition | By the end of the lesson, the learner should be able to:  Explain mesh topologies  Discuss the advantages and disadvantages of mesh topologies Discuss the media preparation and connection  Define ICT  State application areas of information and communication technology | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 37-38 Longhorn Computer Studies by S.Mburu and C.Chemwa page 42-45 |  |
| **5** | MID TERM EXAMS AND BREAK | | | | | | | |
| **6** | 1 | Application areas of information and communication technology (ICT) | Financial systems | By the end of the lesson, the learner should be able to:  Discuss how ICT is used in the financial systems | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 47-50 |  |
| 2 | Application areas of information and communication technology (ICT) | Retail system | By the end of the lesson, the learner should be able to:  Discuss how ICT is used in the retail systems | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 50-52 |  |
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|  | 3-4 | Application areas of information and communication technology (ICT) | Reservation and education system Communication system Industrial system | By the end of the lesson, the learner should be able to:  Discuss how ICT is used in the reservation and education systems Discuss how ICT is used in the communication systems Discuss how ICT is used in the industrial systems | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 52-54 Longhorn Computer Studies by S.Mburu and C.Chemwa page 54-57 |  |
| **7** | 1 | Application areas of information and communication technology (ICT) | Scientific and research systems | By the end of the lesson, the learner should be able to:  Discuss how ICT is used in the scientific and research systems | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 59-60 |  |
| 2 | Application areas of information and communication technology (ICT) | Library system | By the end of the lesson, the learner should be able to:  Discuss how ICT is used in the library systems | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 60-61 |  |
| 3-4 | Application areas of information and communication technology (ICT) | Entertainment system Transportation system | By the end of the lesson, the learner should be able to:  Discuss how ICT is used in the entertainment systems  Discuss how ICT is used in the transportation systems | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 61-62 Longhorn Computer Studies by S.Mburu and C.Chemwa page 62-63 |  |
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| **8** | 1 | Application areas of information and communication technology (ICT) | Office expert system  Law enforcement system | By the end of the lesson, the learner should be able to: Discuss how ICT is used in the office expert systems  Discuss how ICT is used in the law enforcement systems | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 63-66 |  |
| 2 | Impact of information and communication technology (ICT) on  society | Introduction | By the end of the lesson, the learner should be able to:  State issues resulting from the use of ICT | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 68 |  |
| 3-4 | Impact of information and communication technology (ICT) on  society | Effects on employment Effects on automated production | By the end of the lesson, the learner should be able to:  Explain the effects of ICT on employment  Explain the effects of ICT on automated machines | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 68-69 Longhorn Computer Studies by S.Mburu and C.Chemwa page 69-70 |  |
| **9** | 1 | Impact of information and communication technology (ICT) on  society | Issues of workers | By the end of the lesson, the learner should be able to:  Explain the effects of ICT on workers | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 70-71 |  |
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|  | 2 | Impact of information and communication technology (ICT) on  society | Cultural effects Breakthroughs in information and communication technology | By the end of the lesson, the learner should be able to: Explain the effects of ICT on culture Explain the breakthrough in information and communication technology | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 71-72 |  |
| 3-4 | Impact of information and communication technology (ICT) on  society | Evolution of computer system Artificial intelligence | By the end of the lesson, the learner should be able to:  Discuss the evolution of computer systems  Discuss the evolution of artificial intelligence | Explaining Demonstration Discussions | Newspaper Letters Books Internet Handouts | Longhorn Computer Studies by S.Mburu and C.Chemwa page 72-73 Longhorn Computer Studies by S.Mburu and C.Chemwa page 73-74 |  |
| **10** | END OF TERM EXAMS | | | | | | | |

Dennis