

COMPUTER FORM 3 SCHEMES OF WORK

TERM 1 2025

WEEK	LESSON	TOPIC	SUB - TOPIC	OBJECTIVES	LEARNING/TEACHING ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	REMARKS
1	1	Data Representation in a computer	DEFINITION & INTRODUCTION	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Define data Define information Classify computers according to functionality with illustration 	<ul style="list-style-type: none"> Questions and answers Discussions in groups brainstorming 	<ul style="list-style-type: none"> computer keyboard electronic circuits Charts Photographs Pictures from books 	<ul style="list-style-type: none"> Longhorn Computer studies Bk 3 page 1-3 Computer studies by Onunga and Shah page 1 	
	2		DATA REPRESENTATION	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> Represent data in digital computers <ul style="list-style-type: none"> (i) On electronic circuits 	<ul style="list-style-type: none"> Discussions in groups Exercises by the teacher 	<ul style="list-style-type: none"> Charts Floppy diskettes Compact disk Electronic circuit 	<ul style="list-style-type: none"> Longhorn Computer studies Bk 3 page 23 Computer studies by Onunga and Shah page 1 	

				(ii) On magnetic media (iii) Optical media				
	3-4	Data Representation	DATA REPRESENTATION	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Give reasons why binary system is used in computers • Define bits, bytes, nibble and word 	<ul style="list-style-type: none"> • Discussions • Question and answer 	<ul style="list-style-type: none"> • charts 	<ul style="list-style-type: none"> • Longhorn Computer studies Bk 3 page 24 • Computer studies by Onunga and Shah page 1 	
2	1	Data Representation	NUMBER SYSTEMS	By the end of the lesson, the learner should be able to <ul style="list-style-type: none"> • Define decimal number • Represent data in decimal number system 	<ul style="list-style-type: none"> • Group discussions • Exercises given and marked by the teacher 	<ul style="list-style-type: none"> • Charts • Simple calculations 	<ul style="list-style-type: none"> • Longhorn Computer studies Bk 3 page 25 • Computer studies by Onunga and Shah page 6 	

				<ul style="list-style-type: none"> Represent data in actual number system 				
	2		NUMBER SYSTEM	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Represent data in actual number system Represent data in Hexadecimal number system 	<ul style="list-style-type: none"> Group discussions Questions and answering exercises 	<ul style="list-style-type: none"> charts simple calculations Computer 	<ul style="list-style-type: none"> Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 7-8 	
	3/4	QUIZ AND PROBLEM SOLVING Teacher administers small assignment and revises for better retention						
3	1	Data representation	FURTHER CONVERSION OF NUMBER SYSTEMS	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Convert binary number to decimal number system 	<ul style="list-style-type: none"> Questions and answers Discussions in groups 	<ul style="list-style-type: none"> Charts Simple calculations Questions papers 	<ul style="list-style-type: none"> Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 8 	

				<ul style="list-style-type: none"> Convert decimal numbers to binary numbers 				
	2	“	“	<p>By the end of the lesson,, the learner should be able to</p> <ul style="list-style-type: none"> Convert binary fraction to decimal number system Convert a decimal fraction to binary 	<ul style="list-style-type: none"> Discussions Questions and answers 	<ul style="list-style-type: none"> Charts Simple calculations Questions papers 	<ul style="list-style-type: none"> Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 	
	3-4	PROBLEM SOLVING AND QUIZ Teacher administers questions and answer session for better retention						
4	1	DATA REPRESENTATION	Converting octal numbers to decimal and binary numbers	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> Convert octal numbers to decimal numbers Convert octal 	<ul style="list-style-type: none"> Discussion Question and answer 	<ul style="list-style-type: none"> Chart 	<ul style="list-style-type: none"> Longhorn Computer studies Bk 3 page 26 Computer studies by Onunga and Shah page 12 	

				numbers to binary numbers				
	2	DATA REPRESENTATIONS	Converting hexadecimal numbers to binary number	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Convert hexadecimal to decimal numbers • Convert hexadecimal numbers to binary numbers 	<ul style="list-style-type: none"> • Discussions • Question and answer 	<ul style="list-style-type: none"> • Charts • Simple calculations • Computers • Scientific calculators 	<ul style="list-style-type: none"> • Longhorn Computer studies Bk 3 page 26 • Computer studies by Onunga and Shah page 13-15 	
3-4	QUIZ AND PROBLEM SOLVING Can be inform of a question/answer session for retention							
5	1	DATA REPRESENTATIONS	Symbolic Representation using coding schemes	<p>By the end of the lesson, the learner should be able to</p> <ul style="list-style-type: none"> • Explain the binary coded decimal code as a representation Scheme (BCD) • Explain the extended 	<ul style="list-style-type: none"> • Discussions • Question and answer 	<ul style="list-style-type: none"> • Charts • Scientific Calculators 	<ul style="list-style-type: none"> • Longhorn Computer studies Bk 3 page 26 • Computer studies by Onunga and Shah page 22-27 	

				Binary coded decimal interchange code (EBCDIC)				
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GODLITE ONLINE UPDATED SCHEMES OF WORK 2025

We are delighted to inform you that our crafted Schemes of Work for the year 2025 are now available exclusively on our website www.goldlitekcserevision.co.ke. All are available including, PP1 & PP2, Grade 1 to Grade 8 and Grade 9 (New!) and Form 2 to Form 4

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Warm regards,

GOLDLITE ONLINE TEAM

Feel free to reach out if you have any questions or need assistance. We're here to support you!

Note that:

We have used various books including KLB, JKF, Tusome, Oxford, Longhorn, Moran Publishers, Mountain Top, NPPE, New Beginning (I.R.E), EAEP, Queenex, Kiswahili Mufti, Dadisi, Trendy, Inventor and many more.

FOR COMPLETE AND UPDATED SCHEMES OF WORK FOR ALL SUBJECTS F2-F4 CONTACT US ON

0724351706 OR 0726960003 OR VISIT OUR WEBSITE www.goldlitekcserevision.co.ke

**OUR SCHEMES USES M.O.E RECOMMENDED COURSE BOOKS. LANGUAGES ARE ALSO UPDATED
WITH NEW SETBOOKS**

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