

LEARNER-CENTERED LEARNING

Learner-centered or active learning recognizes that the focus in teaching is getting learners to do rather than to listen. Learning by doing attaches real meaning to whatever related knowledge is being taught



HARROAN GUIDED LESSON PLAN



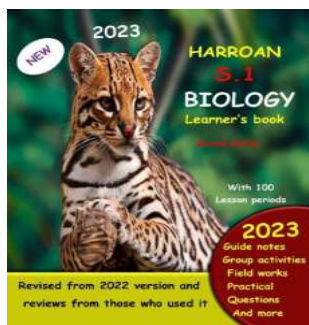
I listen - I forget

I see - I believe

I do - I understand



HARROAN S.1 SAMPLE
LESSON PERIOD 1 & 2
TEACHING SUPPORT



This teaching support has been made following Harroan Learner workbook for the first two lesson periods. They are also provided in the sample 40 pages sent.

HARROAN GUIDED LESSON SCHEME

Lesson title 1.1. Defining biology		Lesson No. 1
Topic Introduction to biology		Theme: Diversity of living things
Class senior one		
Content standard	Students will be able to define biology, state the reasons why we study it and identify economic activities involving biology	
Bench mark	Identify the economic activities in our society involving biology	
Key question	How can we know that a particular economic activity involves biology knowledge?	
Lesson learning objectives	By the end of the lesson, learners should be able to, <ul style="list-style-type: none"> • Define biology • Mention reasons why we study biology • Identify economic activities involving biology 	
Teaching period	40 minutes (1 period)	
Preparations	✓ A copy of Harroan learners book for each student (we recommend) or pictures with various economic activities ✓ Biology textbooks	

Learning content

Knowledge	Skills	Attitudes and values
<ul style="list-style-type: none"> ✓ Biology is the branch of science that deals with the study of life ✓ We study biology to become medical workers, teachers, acquire skills and protect the environments 	<ul style="list-style-type: none"> ✓ Identifying the economic activities from the pictures by learners themselves ✓ Identifying which activities involve the use of biology 	<ul style="list-style-type: none"> ✓ Respect views from others ✓ Show open-mindedness when learning about occupations in biology ✓ Develop curiosity about occupations related to biology

Suggested lesson plan

Time section	Teacher activity	Learners Activity
Intro, 5 minutes	<ul style="list-style-type: none"> ✓ Greets the class ✓ Ensure each learner has required study materials (We recommended Harroan learners book each) ✓ Ask learners what they know about biology. 	<ul style="list-style-type: none"> ✓ Learners to respond to the teacher ✓ Learners organize themselves for the lesson ✓ Learners respond to the teacher
15 minutes	<ul style="list-style-type: none"> ✓ Allow learners to go through given guide notes in groups & do activity 1 ✓ Ensure that each learner participates 	<ul style="list-style-type: none"> ✓ Learners go through guide notes on page 2, 3 and 4 as a group. They can add on more from textbooks ✓ Learners do group activity 1

15 minutes	<ul style="list-style-type: none"> ✓ Choose some groups to present group activity 1a, and the individual activity ✓ Allow other members to ask questions to the presenting groups though they should have respect for other's views ✓ Settle any arguments of discussions among learners 	<ul style="list-style-type: none"> ✓ Learners present group activity 1a, ✓ Some learners present to class the individual activity. Their future occupations and how to develop their society
5 minutes	<ul style="list-style-type: none"> ✓ Ask learners what they have learnt ✓ Allow learners to make corrections for what they have got wrong ✓ Tell learners to research about how biology is involved in farming, fishing and hospitals before they appear for the next lesson period 	<ul style="list-style-type: none"> ✓ Respond to the teacher ✓ Take notes on what they had got wrong from the activity ✓ Add any other notes to include on what the Harroan book gives ✓ Note down what to research about before coming for the next period

Teacher's self-Assessment.

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- ✓ Learners must be told to make research about the next period's activity. They shouldn't research during lesson period, it wastes time.
- ✓ Give learners some time to discuss what they have found out and guide them basing on the answers they have given,
- ✓ You will need Harroan learner's books to help your learners complete on time and have enough discussion time since they write the answers directly inside the books.

Expected answers on group activity 1a,

Group activity 1a,

Note. An economic activity is the activity of making or providing or selling goods or services. Economic activities exist at all levels within a society and they involve exchange of money

A - Baking

B - Farming

C - Motocyclist

D - Floriculture

E - Pharmaast

F - Surgery

G - Carpentry

H - laboratory diagonistics

I- Mechanic

J- Market vendor

K- driver

L- Dentist

M- Fish monger

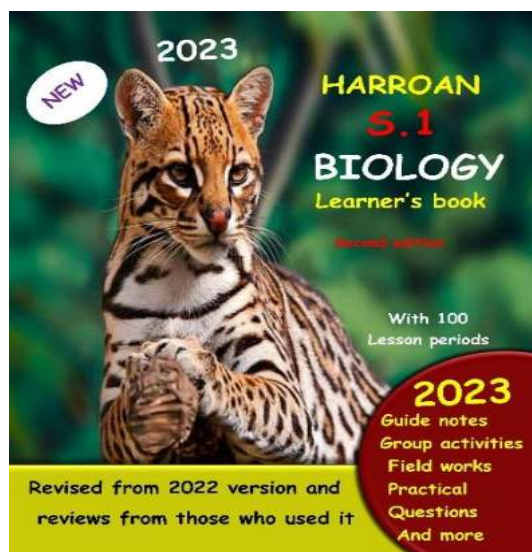
N- Engineer

O- Teaching

Note, baker can be marked instead of baking for A, Farmer for farming and so on

Activities which involve biology - baking, farming, floriculture, surgery, dentist, teaching, Pharmaast, laboratory diagonistics

Activities which do not involve biology- rest of the activities



We shall provide a teacher's support for each of the lesson period from term 1 to term 3. Every week we shall be releasing 3 each for s1 bio, chem and phy. And s.2 also 3 periods for the bio, chem and phy.

Also we shall provide illustration videos for some lesson periods.



Harroan final conclusions

We shall provide a teachers lesson support for each of the 100 lesson periods in our S.1 and S.2 biology, chemistry and physics learner's books. They will be provided via our what's app group

Harroan New curriculum science

From the same group, we shall provide;

- Soft copies of some reference textbooks. (not Harroan books)
- Videos for lesson illustrations (in some periods)
- Updates on our books release and development

Important note,

For the new curriculum where learning is student centered, with practical and investigations, DIT exams and vocationals, presentations within lesson, having access to coloured pictures and internet, we believe it is almost impossible for teachers to complete the syllabus without using workbooks. More so for science subjects.

Look at the S.3 class which has DIT exams this year, uncompleted S.2 topics and the incoming 10 S.3 biology topics of which they involve investigations and practical

It will be impossible for the learners to have completed by next year

How is Harroan solving that?

- With our work books, learners are directed on what to cover in the next lesson period so they research about it to be ready before the period.
- The books have spaces where learners write inside. This saves time in class since the teacher doesn't have to read question or guide notes when each child has a copy

- The book bring organization in the flow of work. Imagine a learner with a heading picture below shows. But in their book there are no pictures. May be the teacher provided the pictures during the lesson. But what will happen 1 year or 2 years after when the learner is revising that work. For the pictures, he doesn't even remember
- We recommend schools with S.3 students having a poor coverage to use our Harroan S.2 books to cover the undone work at the same time as they are covering S.3 topics.
- We recommend schools to start their incoming S.1's with our Harroan workbooks to simplify not complex their learning of science subjects of the new curriculum

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