



NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral zone, NnamdiAzikiwe Expressway, Jabi, Abuja
FACULTY OF EDUCATION ...

COURSE CODE: SED313
COURSE TITLE: IMPROVISATION IN INTEGRATED SCIENCE
CREDIT UNIT: 2
TIME ALLOWED: 2HOURS
INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE:

1a. With a specific example, give your own operational definition of the term “Improvisation”
(5marks)

1b. Improvisation is of immense value in the teaching and learning process. Outline any **four** (4) of such values.(4marks)

c. Preservation of improvised instructional materials is as important as its production. Provide two(2) avenues of preserving such materials (**6 marks**).

d. State and discuss five (5) reasons for the needs of Improvisation in Integrated Science.
(15mks)

(Grand total =30marks)

QUESTION TWO:

Resources for science teaching are indispensable in the study of Integrated Science:

- i. Provide a working definition of resources for science teaching (**2 marks**)
- ii. With three (**3**) **specific examples each**, state the **two (2) broad groups** of resources for science teaching in immediate environment. (**8 marks**)

- iii. Study and complete the table that follows, indicating **ONE** resource/teaching/instructional material or the **source**, as the case may be.

S/N	Resource/Instructional Material	Source
1	?	Roadside Mechanic/Radionic workshop
2	Assorted fruits	?
3	First Aid box	?
4	Assorted Insects	?
5	?	Improvised by the teacher by using simple production techniques learnt.

(10 marks)

QUESTION THREE:

- a. As a trained Integrated science teacher, **specify any five (5)** human resource specialists you may invite/utilize for effective teaching and learning of science in schools.(**10marks**).
- b. Discuss **any five (5)** criteria/roles you considered useful before such invitation/utilization of the personnel (**10 marks**).

QUESTION FOUR:

- a. List and discuss five (5) guidelines to follow in choosing improvised instructional materials. (**15marks**)
- b. Critique improvisation in science teaching and learning, giving three (3) merits and two (2) demerits (**5 marks**).