



# NATIONAL OPEN UNIVERSITY OF NIGERIA

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

**COURSE CODE:** EDU752  
**COURSE TITLE:** CHEMISTRY METHODS  
**CREDIT UNIT:** 2  
**TIME ALLOWED:** 2HOURS  
**INSTRUCTION:** ANSWER QUESTION ONE AND ANY OTHER TWO

## QUESTION ONE:

For teaching the topic: “**First Twenty Elements in the Periodic Table**” to JSS 3 Students in 35 minutes:

- i. State four (4) Instructional Objectives .(4mks)
- ii. Mention an Instructional Material you would use for the lesson(3mks)
- iii. Explain briefly your Entry Behaviour (3mks)
- iv. Develop your Lesson Plan for teaching the topic (10mks)
- v. Outline **four (4)** Evaluation questions, **two (2) each** in the **High Order** and **Low Order** levels of the cognitive domain.(8mks).
- vi. State two (2) ways by which a teacher could abuse the use of a chemistry textbook as a resource material(2mks)

## QUESTION TWO:

**2a.** Improvisation of instructional materials is of great essence in chemistry teaching. Discuss five (5) considerations that would guide the selection of appropriate improvised materials for chemistry teaching.(10mks)

**b.** With your experience as a trained chemistry graduate, state five (5) standard instructional materials or reagents or equipments in chemistry and their improvised counterpart (10mks).

## QUESTION THREE:

One of the objectives of Post-Basic Education and Career Development is to “**provide entrepreneurial, technical and vocational job-specific skills for self-reliance and for agricultural, industrial, commercial and economic development**”. From chemistry curriculum, **identify five (5) content areas/topics** and **discuss** how you would strive

towards the attainment of the stated objective in your teaching, **specifying relevant resource(s)/instructional material(s)** as the case may be. (20mks).

**QUESTION FOUR:**

- a. Mention the best method of teaching chemistry. Justify your answer. **(4marks)**
- b. Outline and discuss any four (4) avenues you should embark on, in your career, to grow professionally as a chemistry teacher **(8 marks)**
- c. Discuss any four (4) educational implications of Jean Piaget's theory of intellectual development for science teaching. **(8marks)**