

Availability and Utilization of Instructional Materials in Teaching and Learning of Biology in Senior Secondary Schools

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ABSTRACT

This study investigated the availability and utilization of instructional materials in the teaching and learning of biology in senior secondary schools in Talata Mafara Town, Zamfara State. A descriptive survey research design was adopted for the study using quantitative data. The population comprised all the heads of department of biology in the senior secondary schools (six public and four private) in Talata Mafara Town. The entire population constituted the sample of the study due to its small size. A validated questionnaire with reliability index of 0.63 obtained using Cronbach's alpha was used as instrument for data collection. The data collected were analyzed using frequency counts and percentages presented in tables and charts. Five research questions guided the study. The findings of the study revealed that some of the required instructional materials are fairly available but are not regularly use by biology teachers. Biology laboratories and instructional materials relating to multimedia are lacking in most of the schools in Talata Mafara Town. Lack of fund for procurement and large class size coupled with lack of in-service training for serving biology teachers were major factors identified to inhibit effective provision and utilization of instructional materials respectively. Based on these findings, the study recommended among others that biology teachers in Talata Mafara Town should make effort in utilizing available instructional materials. Zamfara State Government should build biology laboratories and make provision for instructional materials especially multimedia related in all senior secondary schools in Talata Mafara. Professional development of biology teachers should be encouraged and sponsored by government and other relevant stake holders.

Keywords: instructional materials, availability, utilization, teaching/learning biology

INTRODUCTION

No country can afford to disregard science at any level of education due to its impact on national development. At the senior secondary school level, biology is one of the key science subjects required in senior secondary school certificate examination (SSCE) (Ogbuze & Okoli, 2020; Umar, 2011; Umar et al., 2020). Biology is a science subject that aims at equipping students with appropriate scientific attitude, competences, and ability to apply scientific knowledge to every challenges of life. The objective of biology curriculum at secondary school level is to inculcate scientific process and attitudes in students.

The objective is highlighted by Nigerian Educational Research and Development Council (NERDC, 2008) that objectives of secondary school biology curriculum is designed to enable students acquire suitable laboratory and field skills, meaningful and relevant knowledge in biology, scientific knowledge that is applicable, in health, agriculture, personal and community daily life matters and development of

functional scientific attitudes. Several topics in biology such as ecology, cell theory, metabolism, osmosis, and so on, require approaches promoting experimental problem-solving and process-based skills (Jeronen et al., 2017). According to Ogbuze and Okoli (2020), nearly all science and arts students choose biology as they enroll for senior secondary class. Reason being that biology serves as a prerequisite subject for many fields of study (Adesola et al., 2022) and professions such as medicine, nursing, pharmacy, microbiology, biomedical technology, biochemistry, and other related disciplines. Thus, it contributes immensely to the national development. Also, Matazu (2022) stressed that biology is a very important subject for technological development. The subject is fundamental for individual well-being, development of good living environment and acquisition of functional scientific attitudes. It is therefore imperative that secondary school students are well-grounded in biology for Nigeria to attain the state of national development it desires (Nahu et al., 2021).

However, in spite of the relevance of biology, the manner of teaching and learning of the subject as well as the students'

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Millennium Declaration which set out a series of clear commitments goals and targets to achieve Human Development These
ambitious goals were subsequently refined into eight Millennium Development Goals MDGs designed to provide a framework
for accountability donor coordination and resource mobilization The MDGs are Eradicate extreme poverty and hunger
achieve universal primary education promote gender equality and empower women reduce child mortality improve maternal
health combat HIV AIDS malaria and other diseases ensure environmental sustainability and develop a global partnership for
development The first seven of these Goals are concerned with outcomes identifying the progress towards certain standards
of human well being and decent living which should be achieved globally and nationally by 2015 The eighth Goal is
concerned with relationships identifying various aspects of a global partnership for development which must be forged to
support the realization of these poverty reduction human development and environmental sustainability standards The MDGs
provide opportunities to start working from real life development problems Addressing these problems requires
multidisciplinary approaches that combine the natural sciences the life sciences and technical approaches with social science
approaches The challenge is to integrate social economic political and institutional concerns into research strategy To be
able to achieve this there is a need to establish a linking pin between research policy and practice in Nigeria The aim of such
a linking pin would be to synthesize research outcomes on specific MDGrelated topics and to translate these into implications
for policy and decision making through easily accessible gathering where individual stakeholders can air their views The
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