# AFRICAN JOURNAL OF SCIENCE TECHNOLOGY AND MATHEMATICS EDUCATION (AJSTME)



**ISSN: 2971-6233 (Online)** 

Volume 9, Issue 6 - October, 2023. ISSN: 2251-0141 (Print)



 $\begin{array}{c|c} \div & + \\ \hline \\ = & NaNO_n \end{array} \qquad \begin{array}{c} \sin\left(\frac{dm+A}{2}\right) \\ \sin\frac{A}{2} \end{array} \\ \hline \\ AgNO_n \end{array} \\ \hline \\ NaCI \end{array} + \end{array}$ 

# JOURNAL OF THE DEPARTMENT OF SCIENCE EDUCATION UNIVERSITY OF NIGERIA, NSUKKA

OUR WEBSITE: https://www.ajstme.com.ng

### AFRICAN JOURNAL OF SCIENCE, TECHNOLOGY AND MATHEMATICS EDUCATION (AJSTME)

OF NIGERIA, N

## Volume 9, Issue 6 - October, 2023

ISSN: 2251-0141 (Print) ISSN: 2971-6233 (Online)

RIMENT

CIENCE ED

Published by the Department of Science Education University of Nigeria, Nsukka

F

#### The Editorial Board

#### **Editor-in-Chief**

Prof. L. N. Nworgu Department of Science Education, University of Nigeria, Nsukka E-mail: loretta.nworgu@unn.edu.ng

#### Editor

Dr Christian Sunday Ugwuanyi Department of Science Education,

University of Nigeria, Nsukka E-mail: christian.ugwuanyi@unn.edu.ng

#### **Associate Editors**

- Dr. J. J. Agah, Department of Science Education, University of Nigeria, Nsukka
- Dr. B. C. E. Oguguo, Department of Science Education, University of Nigeria, Nsukka
- > Dr. C. C. Ugwuanyi, Department of Science Education, University of Nigeria, Nsukka
- > Dr. E. I. Orji, Department of Science Education, University of Nigeria, Nsukka
- > Dr. F. E. Ikeh, Department of Science Education, University of Nigeria, Nsukka

#### **Consulting Editors**

- Prof. B. G. Nworgu, Department of Science Education, University of Nigeria, Nsukka
- Prof. U. M. Nzewi, Department of Science Education, University of Nigeria, Nsukka
- Prof. D. N. Ezeh, Department of Science Education, University of Nigeria, Nsukka
- Prof. Nkadi Onyegegbu, Department of Science Education, University of Nigeria, Nsukka
- Prof. Chinwe Rose Nwagbo, Department of Science Education, University of Nigeria, Nsukka
- Prof. S. Mari, Department of Science Education, Ahmadu Bello University, Zaria
- Prof. A. M. Olagunju, Institute of Education, University of Ibadan
- Prof. Z.C. Njoku, Department of Science Education, University of Nigeria, Nsukka
- Prof. C. E. Ochonogor, Department of Science Education, Cape Peninsula University of Technology, Mowbray Campus, Cape Town, South Africa
- Prof. G. O. M. Onwu, University of Pretoria, South Africa
- Prof. J. C. Adigwe Department of Science Education, University of Nigeria, Nsukka
- Prof. F.O. Ezeudu Department of Science Education, University of Nigeria, Nsukka

#### **Editorial Assistants**

- Mr. Cliff Ikenna Okebanama, Department of Science Education, University of Nigeria, Nsukka
- Mr. Ukala, Geoffrey, Department of Science Education, University of Nigeria, Nsukka

### Editorial

African Journal of Science, Technology and Mathematics Education (AJSME) is an official publication (now online) of the Department of Science Education, University of Nigeria, Nsukka. AJSTME is a peer reviewed publication aimed at advancing knowledge and professionalism in research in education. As a scholarly journal, it focuses in innovation in knowledge of Science, Technology and Mathematics (STM), Curriculum, Evaluation, Policy and Pedagogy.

The Editor-in-chief of this journal is sincerely thankful to the editorial team and to all those who contributed in one way or the other in making AJSTME what it is today and especially to our numerous subscribers.



#### In This Issue

- Information and Communication Technology (ICT) Skills Possessed by Pre-Primary School Teachers in the University of Nigeria Nsukka - Ekesionye N. Edith; Nwankwor Paulinus; Raphael F. Onyedikachi; Ejiofor J. Ngozi; Theresa Ofoegbu & Asogwa Uche
- CAN-8 Virtualab: A Virtual Language Laboratory and Learning Management System (LMS): A review and Justification for its Adoption in Nigeria Universities -Okeke, H. Chinedu, Ofoegbu, Theresa O. & Asogwa, U. David ...........430-434

- Effect of Concept Mapping Instructional Strategy on Students Attitude and Motivation to Genetics Among Senior Secondary School Students in Bauchi Metropolis - Isiyaku Sani, Danladi S. Zayum & Adamu G. Jibrin ....... 464-471

- Examining the effect of Inquiry Teaching Method on Student Achievement in Writing and Balancing Chemical Equations - Abugu J. Emeka, Njoku, Z.C. ...... 487-492
- The Effectiveness of Metacognition on Academic Achievement among Nigerian University Students - Ohwoavworhua, Loveth & Evangelista C. Oguguo 493-499
- Comparative Analysis of Van Hiele Instructional Model and Conventional Teaching Method for Effective Learning of Mensuration in Mathematics - Ahmad M. Umar, Liman M. Alhaji, Liman A. Shehu
- Self-Esteem, Attitude to Schooling and Academic Performance of Junior Secondary School Pupils in Lagos State - Etobro, A. Benjamin & Aina, O. Oyenike... 507-512
- The Role of Pragmatics in the Teaching and Learning of the English Language -Ukoha, O. Evelyn, Menakaya, C. Miracle & Ugbordiegwu, C. Valentine 513-518
- Unveiling the Relationship Between Self-Concept and the Acquisition of Science Process Skills in Basic Science and Technology among Junior Secondary School Students in Nasarawa State - Simon, Pannan D & L. N. Nworgu ....... 519-525
- ✤ Approaches to Learning and its Influence on Polytechnic Students' Academic Performance - Ogbeta.I. Joseph & Awwalu. B. Habiba ...... 526-530

۷