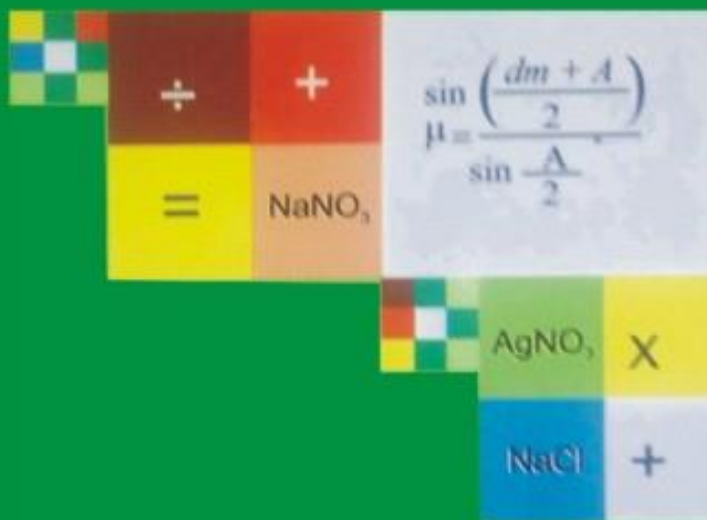


AFRICAN JOURNAL OF SCIENCE TECHNOLOGY AND MATHEMATICS EDUCATION (AJSTME)



VOL. 8, ISSUE 2 - APRIL, 2022.

ISSN: 2251-0141



**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)**

Volume 8, Issue 2: April, 2022

ISSN: 2251-0141

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

The Editorial Board

Editor-in-chief

Prof. Nkadi Grace Onyegegbu

Department of Science Education,

University of Nigeria, Nsukka

E-mail: nkadi.onyegegbu@unn.edu.ng

Editor

Prof. U. N. V. Agwagah

Department of Science Education,

University of Nigeria, Nsukka

E-mail: uchenna.agwagah@unn.edu.ng

Associate Editors

- Dr. C. S. Ugwuanyi, 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

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. 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. R. C. Nwagbo, Department of Science Education, University of Nigeria, Nsukka
- Prof. F.O. Ezeudu, Department of Science Education, University of Nigeria, Nsukka

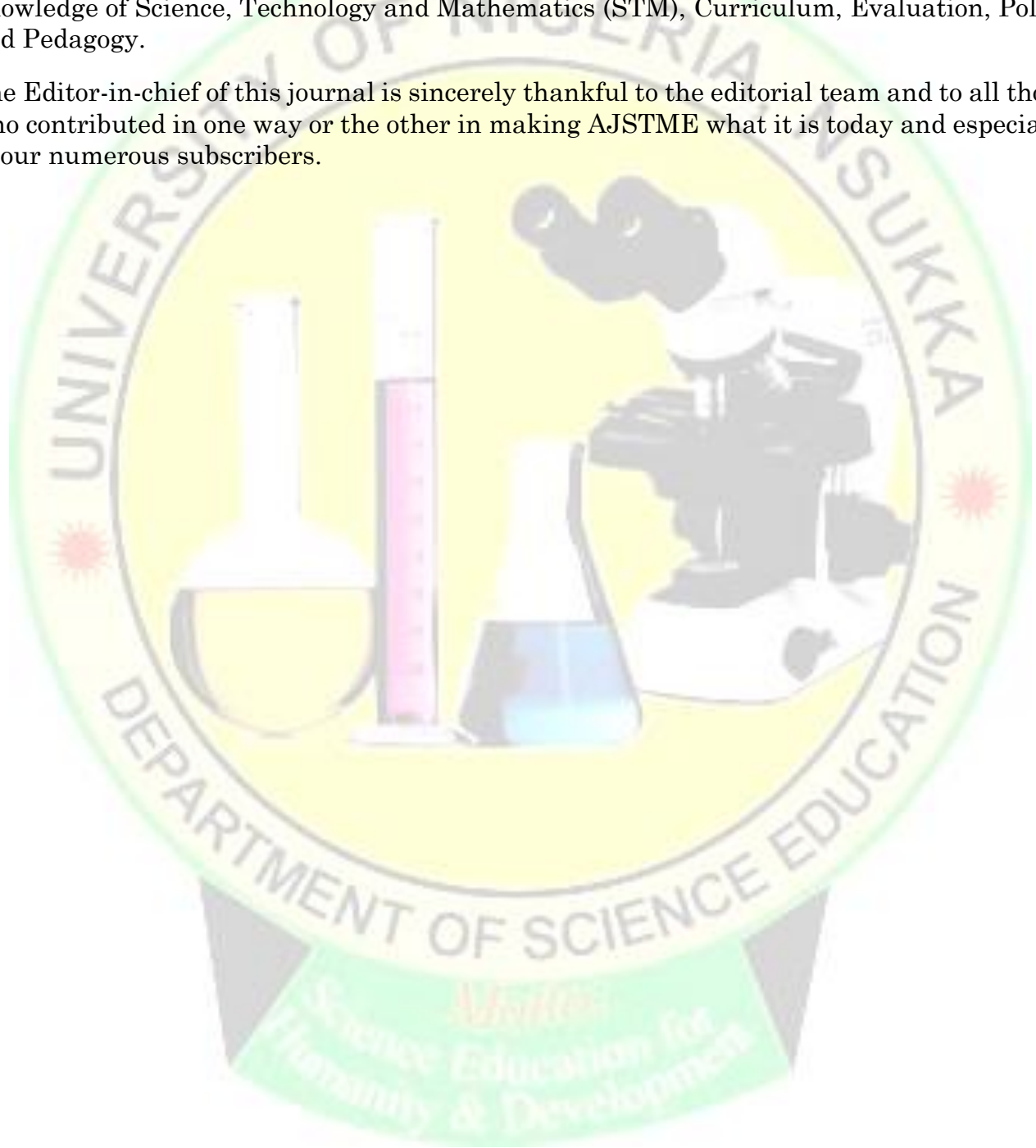
Editorial Assistant

- 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

- ❖ Assessing the Unidimensionality and Local Independence of Teacher-Made Economics Test Items Constructed Using Bloom's Taxonomy in Secondary Schools in Southwest, Nigeria - **M. S. Omirin & L.G. Jimoh**99-104
- ❖ Effect of Framing and Team Assisted Individualized Instructional Strategies on Trigonometric Achievement of Senior Secondary School Students in Niger State - **Alhassan D. Safo, et al.**105-110
- ❖ Effect of Teaching with Local Instructional Materials on Primary School Pupils' Achievement in Mathematics, Eganyi District of Ebiraland-Ajaokuta, Kogi State-Nigeria - **Usman, K. O., Momozoku, U. S., & Audu, A. O.**111-116
- ❖ Effect of Polya Model on Senior Secondary School Students' Academic Retention in Trigonometry in Kano State, Nigeria - **S.I. Maruta & A. A. Magaji**117-122
- ❖ Using Field Trip Method to Enhance Scientific Literacy Acquisition Among Basic Science Students in Rivers State - **Nwala, L.**123-129
- ❖ Assessment of Level of Science Process Skills Possessed by Senior Secondary School Chemistry Students - **Keziah, C. B., & Adamu J.**130-137
- ❖ Effect of Modified Lesson Study Technique on Secondary School Students' Academic Achievement in Mathematics in Obowo Lga of Imo State - **Ogoke, C. J., Nsiegbe, N. A., & Achugamonu P. C.**138-144
- ❖ Biological Garden and Academic Achievement of Senior Secondary School Students' - **Folasade O. O., & Abosede A. O.**145-149
- ❖ Teachers' Behaviour as Correlate of Students' Performance in Mathematics in Ondo State Secondary Schools - **M. S. Omirin & S. B. Fazoranti**150-155
- ❖ An Enhanced Method of Teaching and Learning During the COVID-19 Pandemic: The Case of Pen Resource Academy Gombe - **Hassan I., Sulaiman M. S., & Mustafa. U.**156-161
- ❖ Trends in Research in Curriculum Development and Evaluation in Mathematics - **Elizabeth A. A., & Adeneye O. A. A.**162-168
- ❖ Effect of Jigsaw II Cooperative Learning Strategy on Senior Secondary School Students' Academic Achievement in Algebra in Gombe State, Nigeria - **Fasasi K. M., & Istifanus H.**169-175
- ❖ Assessment of Impact of COVID-19 Pandemic on Teaching and Learning of Basic Science and Technology in Gombe State, Nigeria - **Ogundare, S. A., & Manu J.**176-181
- ❖ Effect of Creative Teaching on Creative Thinking Among Different-Ability Upper-Basic Science Students in Gboko-Town - **Geoffrey A. A., Wisdom K. T., & Gabriel S. I.**182-188
- ❖ Effect of Teacher-Learner Improvised Material on Critical Thinking Among Varied-Ability Upper Basic Science Students in Makurdi Metropolis - **Geoffrey A. A., Gabriel S. I., & Wisdom K. T.**189-195