

UNIZIK JOURNAL OF STM EDUCATION

Vol. 7 No. 1

JULY, 2024.

DEPARTMENT OF SCIENCE EDUCATION

**Nnamdi Azikiwe University,
Awka,**

UNIZIK JOURNAL OF STM EDUCATION

(Vol. 7 No. 1)

<https://journals.unizik.edu.ng/index.php/jstme>

Editorial Board

Editor-in-chief

Prof. N. N. Achufusi-Aka

Chairman

Prof. J. N. Okoli

Secretary Editorial Board

Dr. C.O. Obialor

Editors

Prof. J. N. Okoli

Prof. E. C. Okigbo

Prof. N. N. Achufusi-Aka

Dr. N.N.C. Samuel

Rev. Sr. Dr. M.C. Nwankwo

Dr. I.G. Okonkwo

Dr. C.O. Obialor

Dr. E.O. Egolum

Dr. T. A. Nwamaradi

Consulting Editors

Prof. B. C. Madu

University of Nigeria, Nsukka

Sr. Prof. Bernadette A. Ezeliora (ddl, FSTAN)

Chukwu Odumegwu Ojukwu University,
Igbariam, Anambra State

Prof. Jerry Ebere Omenka

Benue State University, Makurdi

Prof. Joel Eriba

Benue State University, Makurdi

Prof. Chinwe R. Nwagbo

University of Nigeria, Nsukka

Assoc. Prof. Bernadette E. Ozoji

University of Jos

Call for papers

Research articles are invited from interested scholars and researchers for publication in the above journal. The editorial board welcomes empirical articles that are of relevance to Science, Technology and Mathematics Education. This journal is an annual publication of the Department of Science Education, Nnamdi Azikiwe University, Awka, Nigeria.

2

Notes to Contributors

- Contributors should submit their articles electronically through the email address co.obialor@unizik.edu.ng
- Articles should not exceed 12 pages of A4 paper typed double-spaced on one side only.
- The title page should contain the title of the articles, names, addresses, phone numbers and email of the authors.
- The articles should be preceded by an abstract of not more than 250 words
- The referencing should be in the current APA format all works cited in the text must be listed in alphabetical order by the authors surname.
- Tables and figures should be clearly drawn and kept to the barest minimum.
- An assessment fee of N7000.00 should be paid into the bank (details below).
- All manuscripts accepted for publication become the copyright of UNIZIK Journal of STM Education Editorial Board and Publishers.

Please send all correspondences to:

Prof. Ngozi N. Achufusi-Aka

The Editor-in-chief

Department of Science Education

Nnamdi Azikiwe University, Awka

07034931126; nn.achufusi@unizik.edu.ng

Or

Dr. Chris O. Obialor

Secretary Editorial board

Department of Science Education

Nnamdi Azikiwe University, Awka

08037328449; co.obialor@unizik.edu.ng

Bank: Access Bank

Acc. Name: Unizik Journal of STM Education

Acc. Number: 0050261921

EDITORIAL COMMENT

The UNIZIK Journal of STM Education publishes reports of empirical research in Science, Technology; Engineering and Mathematics (STEM) Education as well as related studies in education generally. The publication constitutes a critical medium of communicating well researched works for the science community as well as a forum for communication and cooperation among STEM teachers, policy makers, educators and other educational practitioners across the globe.

This seventh edition of the journal contains nineteen (19) articles that have passed through the peer - review by professionals. The opinions expressed are not necessarily those of the editorial board but of individual authors. These papers are very informative, educative and instructive and I therefore invite the readers to enjoy reading the contributions.

The editorial board of UNIZIK Journal of STM Education appreciates those who subscribe to the journal, reviewers and the consulting editors for their contributions.

Prof. N. N. Achufusi-Aka
Editor-in-Chief



CONTENTS

Science and Mathematics Teachers' Competency in Evaluating Students' Affective and Psychomotor Domains of Senior Secondary Classroom Instruction in Benue State FELIX, Sesugh Kpiranyam, SHARON, Mvena Abaver, CHRISTIANA, Ebele Ogor & JACKSON, Ochigbudu Ode	1
Undergraduate Chemistry Education Students' Attitude toward Use of Computer and Internet and Its Influence on Their Academic Achievement in Kano State KASIM, Ibrahim Mohammed, SALISU, Muhammad Aliyu & CATHERINE, O. Attah	13
Perceived Impacts of Examination Misconduct on Academic Achievement of Biology Students' InAjaokuta Local Government Area Of Kogi State DR. REGINA, I. Enebechi	24
Effect of Metacognitive Instructional Strategy on Secondary School Students Academic Achievement In Geometry in Idemili North Local Government Area FESTUS, Afamefuna Agwu & Ebele, O. Okigbo (Prof.)	37
Cognitive Growth in Dual Culture: Implication for the Development of Critical Thinking for Problem Solving In Science, Technology and Mathematics Education AMINU, Umar Yabo (Ph.D) & ABDULLAHI, Adamu (Ph.D)	49
Influence of Good Study Habits on the Academic Performance of Students in Mathematics in Senior Secondary Schools in Ogun State, Nigeria ABIODUN, Taiwo O, ASANRE, Akorede A, ADENIRAN, F. B., OGUNDEJI, Moses & ODUPE, Toyin A.	57
Effect of Practical Activities on Academic Achievement of Senior Secondary School Students in Biology in Oye Local Government Area, Ekiti State FOLASADE, Oluyemisi Olayinka, (Ph.D), MODUPEOLUWA, Timileyin, Awelewa & PETER, Eson Musa (Ph.D)	70
Student's Personality Type and Gender as Determinants of Secondary School Students' Achievement in Quantitative Analysis in Akure, Nigeria IDIKA, Mabel Ihuoma (Ph.D) & AROMILEHIN, Ayodeji Ola	82
Effect of Activity-based Instructional Method on Secondary School Students' Academic Achievement in Ecological Concepts in Asaba Education Zone CHINONSO, Maureen Azode & JOSEPHINE, Nwanneka Okoli (Prof.)	92

Investigating Challenges and Ethics in Online Teaching: Impacts On Chemistry Education and Students' Interest DR. JULIANA, Nkiru Nnoli & DR. NAOMI, Nkiru Samuel	103
Effect of Collaborative Learning Style on Secondary School Students' Academic Achievement in Biology in Orumba South Local Government Area ANAZODO Onyinye Stella & JOSEPHINE Nwanneka Okoli (Prof.)	112
Effectiveness of Guided-Inquiry and Flipped-Learning Methods on Secondary School Students' Academic Achievement in Ecology in Onitsha Educational Zone CHINWE, Anne Moneke & JOSEPHINE, Nwanneka Okoli (Prof.)	122
The Effect of Using Constructivist Approach of Instruction in Developing Critical Thinking Skill of Estimation among Secondary school students ALBERT, Tobechukwu Nwamaradi (Ph.D), DARLINGTON, Nnamdi Onyejike, EDITH, Chinyere Onyeka (Ph.D), OKWUCHUKWU, K. Okonkwo & CHRISTIAN-IKE, Nwanneka Oluchukwu	134
Peer-Led and Teacher-Led Guided Inquiry Teaching Approaches on Students' Academic Performance in Chemistry UMANAHA, F. I. & BABAYEMI, J. O	145
Appraisal of the Implementation of Computer Studies Curriculum in Upper Basic Education Schools in Anambra State JOY, Uzoamaka Ifionu, JOSEPHINE, Nwanneka Okoli (Prof) & OBIALOR, Chris Okwuchukwu (PhD)	157
Effectiveness of Using Instructional Materials in Guiding Young School Children in Mathematics Instruction OKEKE Eucharika Nneka, EKWEOZOR Chidimma Edith & OKPALA Peace Onyinye	166
Remediation of Common Process Errors in Geometry among Senior Secondary School Students in Awka Education Zone, Anambra State, Nigeria BENSON C. Ezeanyi & BAMIKOLE O. Ogunleye	174
Assessment of Disciplinary Problems of Students and Measures Adopted By Teachers in Curbing Indiscipline in Nigerian Secondary Schools IHENDINIHU, Uchechi Ezinwanyi	184
Effect of blended learning approach on secondary school students' interest in Biology in Awka Education zone NWANKWO, Madeline Chinyere & UCHE Chika Cecila	191

- Effect of Multiple Intelligence- Based Instructional Approach on Students’ Academic Achievement in The Learning of Difficult Concept in Physics in Anambra State
Geoffrey Chidi Onyebuchi (Ph.D) & Tochukwu Isaac Egwuatu 201
- Self-Efficacy as a Predictor of Secondary School Students’ Academic Achievement in Computer Studies in Delta State
Imene, Akpoguma Lugard; Prof. A. M. Osuafor 216
- Integration of Multimedia and Interactive Whiteboard for Quality Teaching and Learning in Nigeria Secondary Schools System.
Atabang, Atim Anietie(Ph.D) 228
- Educational Corruption: A *Deterrent* Factor to Effective Teaching-Learning Process of Agricultural Science Education in Nigerian Tertiary Institutions
Oyegbami, Gabriel Aderibigbe 244