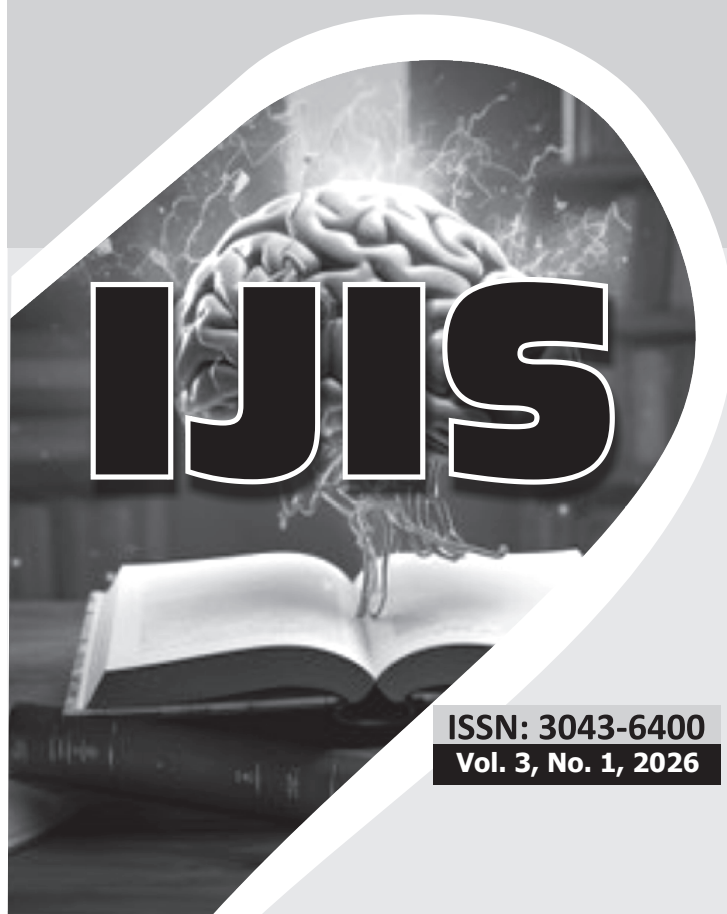




**IFE JOURNAL OF
INTEGRATED SCIENCE**
OBAFEMI AWOLOWO UNIVERSITY,
ILE-IFE, NIGERIA



ISSN: 3043-6400
Vol. 3, No. 1, 2026

**IFE JOURNAL OF INTEGRATED SCIENCE,
OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE, NIGERIA**

INTRODUCTION

Ife Journal of Integrated Science (IJIS), publishes original research, reviews and discussion on Integrated Science, contributing to the advancement of knowledge. It aims to improve the quality of academic and research articles submitted by scholars and researchers from a peer review process, and disseminate the publications via open access to practitioners, educators, educationists, academia, researchers, curriculum planners and policy makers. The manuscripts can employ either quantitative or qualitative approaches.

Manuscript submitted to IJIS should:

1. have a strong introduction that clearly states the organizing points of the study, acquaints the readers to what is ahead, and makes a direct link between theory, questions and research design
2. have focused literature review that clearly establishes why the topic/problem warrants discussion
3. be prepared according to the style prescribed by the 6th or 7th edition of publication manual of American Psychological Association.

Guidelines for Paper Submission

- * Articles should not be longer than 15 A4-sized pages using Time New Roman, font size of 12. Longer articles will attract additional publication fee.
- * Reference style should conform to the American Psychological Association format (6th or 7th Edition). This should be arranged in alphabetical order according to the surname of the authors.
- * Footnotes are not allowed.
- * Manuscripts' cover should include the title of the paper, author(s) name(s), institution affiliation, contact and E-mail address (es).
- * Abstract should not be more than 250 words.
- * Articles can be submitted electronically via e-mail to ijisn.2023@gmail.com
- * Assessment fee of ₦6,000.00
- * Publication fee of ₦35,000, is a condition for publication that a manuscript submitted to Ife Journal of Integrated Science (IJIS) has not been published and will not be simultaneously submitted or published elsewhere.

Submissions are published at the editor's exclusive discretion. Submission that does not conform to these guidelines may not be considered for publication.

Availability and Subscription

Ife Journal of Integrated Science (IJIS), is an open access journal with hard copy and soft copy made available for free download, (<https://ijis.oauife.edu.ng>). Hard copies can be subscribed within Nigeria and abroad, after paying respective fees per copy irrespective of the numbers in a volume per annum as follows:

Postage

The subscribers will be the cost of postage, to be arranged with the Managing Editor. The postage will be determined by the prevailing postage prices and weight of the journal and the choice of courier services. All subscription fees should be paid to the Bank Account of the Ife Journal of Integrated Science (IJIS).

Bank Account Information

Name: Ife Journal of Integrated Science (IJIS).
Bank: Polaris Bank Limited
Account Number: 1140280175

CONTACT

All correspondence to be addressed to the Managing Editors, Ife Journal of Educational Studies (IJIS), through E-mail (ijisn.2023@gmail.com) and Telephone (08065008779 / 07032480735)

(Managing Editors)

Prof. O. S. Agboola
Dr. S. O. Olajide
Institute of Education, Faculty of Education,
Obafemi Awolowo University, Ile-Ife, Nigeria

Prof. T. O. Bello
Institute of Education, Faculty of Education,
Obafemi Awolowo University, Ile-Ife, Nigeria
(Editor-in-Chief)

Editorial Board

- Prof. O. A. Ogunfowokan - Dept of Chemistry, Obafemi Awolowo University, Ile - Ife.
- Prof. T. O. O. Oladipupo - Dept. of Botany, Obafemi Awolowo University, Ile - Ife
- Prof. J. G. Adewale - University of Ibadan, Ibadan
- Prof. M. A. Eleruja - Dept. of Physics, Obafemi Awolowo University, Ile-Ife.
- Prof. M. A. Adeleke - Dept. of Science and Technology Education, Obafemi Awolowo University, Ile - Ife.
- Prof. Sofowora - Dept. of Educational Technology and Library Studies, Obafemi Awolowo University, Ile - Ife.
- Prof. I. A. Olaosun - Dept. of English, Obafemi Awolowo University, Ile - Ife
- Prof. A. T. Akande - Dept. of English, Obafemi Awolowo University, Ile - Ife
- Prof. M. A. Adeleke - Dept. of Science and Technology Education, Obafemi Awolowo University, Ile-Ife.
- Prof. E. F. Bamidele - Dept. of Science and Technology Education, Obafemi Awolowo University, Ile-Ife.
- Prof. A. Tella - Dept. of Science and Technology Education, University of Ibadan, Ibadan
- Prof. A. S. Adelokun - Department of Educational Management
- Prof. K. A. Aderounmu - Department of Kinesiology and Human Recreation, Obafemi Awolowo University, Ile-Ife.
- Prof. I. Ogunlade - Department of Chemical Sciences, School of Physical Sciences, College of Science, Bamidele Olumilua University of Education, Science and Technology, Ikere-Ekiti

TABLE OF CONTENTS

EFFECTS OF 5E-CYCLIC AND MENTAL MODELS ON CONCEPTUAL SUCCESS OF STUDENTS IN ENERGY CONCEPTS IN BASIC SCIENCE IN ONDO STATE, NIGERIA

ANIMOLA, O. V. Ph.D, MOKANJUOLA, A. O. & AJALA, F. O. 1-15

INTERNAL AND EXTERNAL LOCUS OF CONTROL AS DETERMINANTS OF SENIOR SECONDARY SCHOOL STUDENTS' ACADEMIC ACHIEVEMENT IN ECONOMICS IN OSUN STATE, NIGERIA

TAYO OLALEKANAROYE HUN 16-29

INFLUENCE OF PEER PRESSURE AND PARENTING STYLES ON SENIOR SECONDARY SCHOOL STUDENTS' ACADEMIC PERFORMANCE IN MATHEMATICS IN OSUN STATE

SULAIMAN ZULAYKHO TAYE & OLAJIDE SIMEON
OLAYINKA 30-51

INVESTIGATION INTO CHEMISTRY TEACHERS' INSIGHTS ON REPOSITIONING CHEMISTRY EDUCATION IN NIGERIA THROUGH DIGITAL TECHNOLOGY

NA'ALLAH, MARYAM TITILAYO, Ph.D 52-64

DISRUPTIVE TECHNOLOGIES AND THE FUTURE OF AFRICAN EDUCATION: OPPORTUNITIES, CHALLENGES, AND STRATEGIC POLICY PATHWAYS

SAUDAT SHEHU BALA, Ph.D, GALI MUSA, Ph.D, ABBA
SAIDU, Ph.D & ⁴INSAFF AHMAD MUHAMMAD 65-80

INFLUENCE OF TEACHERS' QUALIFICATION AND SUBJECT MASTERY ON BASIC SCIENCE STUDENTS ACHIEVEMENT IN BASIC EDUCATION CERTIFICATE EXAMINATION (BECE) IN ABUJA MUNICIPAL AREA COUNCIL, ABUJA, NIGERIA	
IGBAJI, MERCYNTOL & PHILIPAKU EGGON, Ph.D	81-96
REVOLUTIONIZING SCIENCE EDUCATION IN NIGERIA: THE ROLE OF ARTIFICIAL INTELLIGENCE IN ENHANCING CLASSROOM PEDAGOGY IN SCIENCE EDUCATION	
BELLO, ZAKARIYAU ADEBAYO, Ph.D, SADIQ, BOLAJI NASIR & IBRAHIM, HASSAN BISIRIYU	97-107
NEURAL NETWORK AND ITS APPLICATION IN ENGINEERING IN NIGERIA	
UKANSI UKANSI KALU	108-126
INFLUENCE OF SCHOOL TYPE ON SENIOR SECONDARY SCHOOL STUDENTS' PERCEPTIONS OF CURRICULUM CONTENT RELEVANCE FOR STEM CAREER ASPIRATIONS IN OSUN STATE, NIGERIA	
AYENI MICHAEL OLUFEMI & THEODORA OLUFUNKE BELLO, Ph.D	127-139
TEACHERS' PERCEPTION OF REPOSITIONING BASIC SCIENCE IN JUNIOR SECONDARY SCHOOLS IN OYO STATE, NIGERIA	
VERONICA OLUWATOYIN ANIMASAHUN, Ph.D, MOTUNRAYO IYABODE ADEYEMI, OYERONKE ABOSEDE AKINTOKUN & SAUDAT TITILOPE ADEYANJU	140-161

- ANALYSIS OF GENDER DIFFERENCES IN TECHNOLOGICAL, PEDAGOGICAL AND CONTENT KNOWLEDGE AMONG SENIOR SECONDARY SCHOOL TEACHERS IN OSUN STATE, NIGERIA**
OYENIRAN OYETOLA 162-179
- EVALUATION OF SENSORY AND NUTRITIONAL ATTRIBUTES OF SOYMILK FORTIFIED BREAD**
KOLAWOLE GOSPEL OLADEJI & OPELOYE, NAFISAT ONAOPEMIPO 180-197
- ASSESSMENT OF DYESTUFFS FROM *S. BICOLOR* LEAVES AND *H. SABDARIFA* CALYCES ON COTTON FABRIC**
ABDULQUADIR, I. O. & ASIFAT, B. R. 198-214
- ALGORITHM SCHOOL KIT (ASK) AND EARLY NUMERACY DEVELOPMENT AMONG PRIMARY SCHOOL LEARNERS IN OSUN STATE**
ORISADARE, HAMDALAH ADEJOKE, & MAKINDE, OLUWATUNMISE SAMUEL 215-227
- IMPACT OF MARCO EDUCATIONAL GAME ON MATHEMATICS ANXIETY AND CONFIDENCE AMONG STUDENTS IN JUNIOR SECONDARY SCHOOLS IN OSUN STATE, NIGERIA**
AKINWOLE ADEBAYO NAJEEMDEEN & AJAYI FATAI OLUSEYINDE 228-242
- EFFECT OF PEER-ASSISTED LEARNING STRATEGY (PALS) ON STUDENTS' ACADEMIC ACHIEVEMENT IN BASIC SCIENCE.**
OSUNLOYE OLAWALE ADEJUMO, DELPHONSO BAMIDELE TOKUNBO, ALUKO FAITH OGHENWVETA, ABOLAJI, TOYIN JOY & AKANDE, OLUWAKEMI JULIANA 243-254