

# LEARNING

*Edited by*  
**A.O.U. ONUKA**

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## **LEARNING**

Edited by A.O.U Onuka

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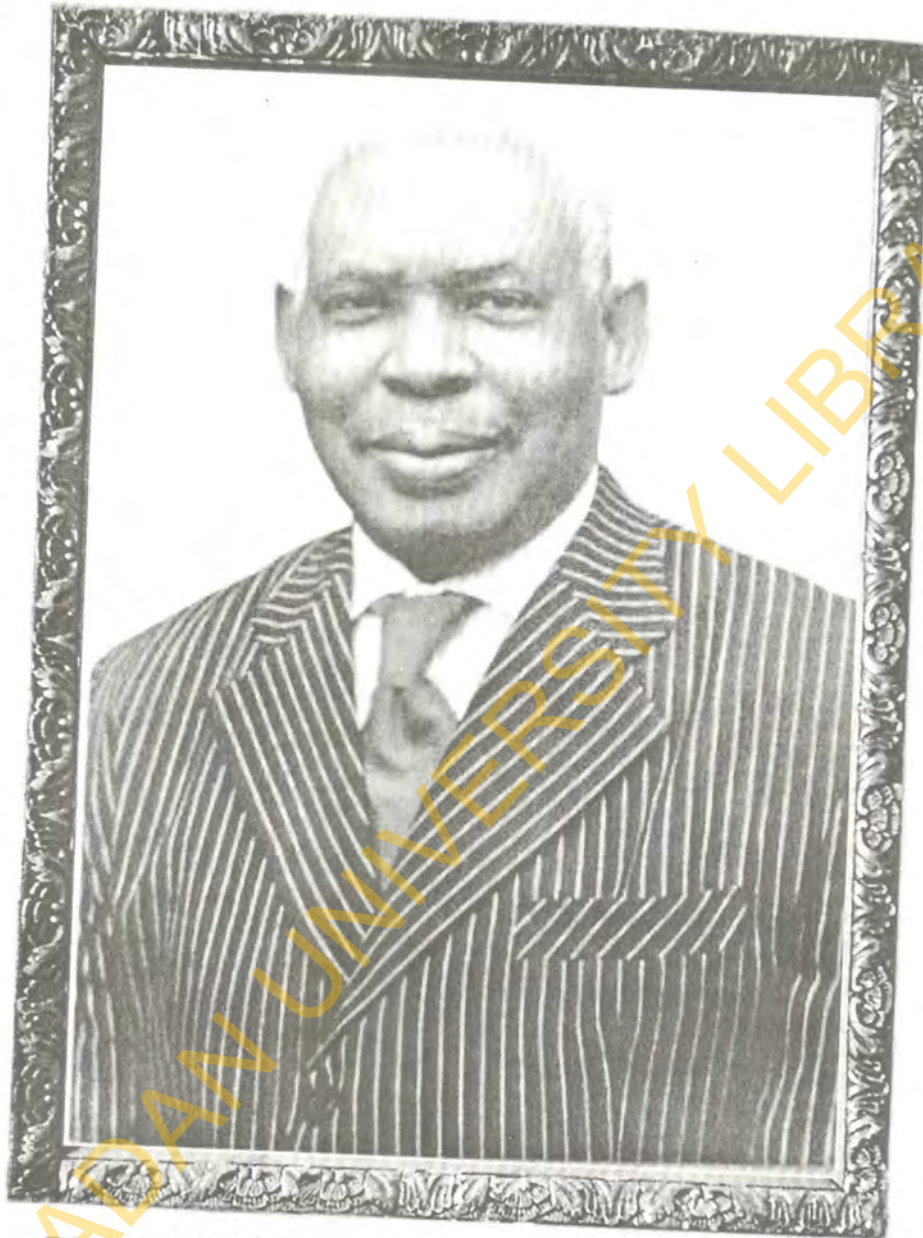
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*Learning – A book in Honour of*  
**PROF. TOLULOPE WALE YOLOYE**

**@ 60**

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PROFESSOR TOLUWALOPE WALE YOLOYE

## DEDICATION

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**T**o the Chapel of the Resurrection, University of Ibadan and Our Saviour's Chapel, IITA

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## ACKNOWLEDGEMENTS

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The following persons are hereby unreservedly acknowledged: Professor PAI Obanya, my academic grandfather, mentor, encourager and friend, Professor Joel Babatunde Babalola, a mentor, friend and brother, Professor TW Yoloye, also a mentor, friend and brother and a foremost peace maker. My thanks also goes to Professor Mac. Araromi, a patient encourager and friend as well as Professor Elizabeth Adenike Emeke, a mother in Israel, friend and encourager, both of whom in various ways had encouraged me to forge ahead academically, possibly unknown to them that they were doing so. I must thank Professor Isaac Adewole, the Vice Chancellor, who had unknowingly encouraged me to work hard and be useful to both myself and this community. I must equally express my gratitude to Professor Femi Bamiro, who as Vice Chancellor, called me to the service of the community, Professor Arinola Sanya, the DVC (Admin) and the Chairperson of CenSO Board who has created the enabling environment for me to excel in my service to the University, Professor Ademola Da Sylva for his encouragement, Professor Wumi Falaye for support and prayers and our entire prayer group members Bros. IA Aponmade, Boye Olatunbosun, Jire Adeoye, Gbenga Oyeyemi, Albert Aweto, Ayo Ogunkunle and Paul Ademuysan. Professor Nike Osofisan, can I ever forget the support you gave, while assistant and subsequently a chaplain in the Chapel of the Resurrection. My beloved brother and a friend in a million: Bro Francis Egbokhare, thank you for your ever ready support to me, even in my ministry, Professor Eghosa Osaghae, you are a wonderful friend, In order not to miss any of my other colleagues at the Institute, I thank you all. You are all appreciated. Professor Samuel Salami, I cannot forget our intimate fellowship in Uganda in 2009 and our continued fellowship even now. I also appreciate my colleagues in the Faculty of Education. You are all wonderful friends. I thank you all for your friendly disposition towards me all the time. I want to thank the staff of CenSO, I have enjoyed every bit of my working with you. You all created a healthy family environment for our work to thrive. I thank my Ph. D students: Drs. Raji and Akinyemi, would soon become Drs., Esther Durowoju and Onabamiro, Suraju Adeyemi, Saheed Oyekanmi, Oyenike Oshin, Nicholas Oke, Charity Ogbegbor and other numerous mentees. I cannot forget the subtle ways in which Professors Idowu Olayinka, the DVC (Acad), Labode Popoola and Abel Olorunnisola, (who agreed that I should organise and coordinate the writing of another book on evaluation to be published by the Post graduate School) have always encouraged me. I thank our (Oluwayomi and I) children for never disturbing me with unnecessary distractions which would have inhibited the production of this and other books. I give you all my heartfelt gratitude. Funmi Adewole and Abiola Oluwole, my Ijesha CenSO 'children' I love you for your friendliness, respect and hard work. God bless you both. I thank my family at Our Saviour's Chapel, IITA. Oluwayomi, my darling and supporting wife, thank you so much. To the Almighty Triune God, the Immortal, Invisible, Invincible and the Immanent be honour, glory, praise and worship now and forever.

**The Editor**

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## NOTES ON CONTRIBUTORS

---

**Pai Obanya**

(International Education Strategist)

**Prof. T. W. Yoloye,**

Institute of Education, University of Ibadan, Nigeria.

Email: [oluwaloye@yahoo.com](mailto:oluwaloye@yahoo.com)  
+ 2348023516561,+2348035833011

**Dr. Olakunle S. Akinsola**

Nigerian Educational Research and Development Council (NERDC), Sheda, P.M.B 91, Garki – Abuja, Nigeria. Tel: +234-803514-4716;

E-mail: [femikunle2006@yahoo.com](mailto:femikunle2006@yahoo.com)

**Dr. Sikiru A. Amoo**

Department of Mathematics and Statistics, Federal University, Wukari, Taraba State

e-mail: [drsikiruamoo@gmail.com](mailto:drsikiruamoo@gmail.com)

**Ibode, Osa Felix (PhD)**

Institute of Education, University of Ibadan. +2348023250926  
[felixibode@yahoo.com](mailto:felixibode@yahoo.com)

**Awotedu, Abimbola Wilson**

Institute of Education, University of Ibadan +2348029897315  
[bimbo5003@yahoo.com](mailto:bimbo5003@yahoo.com)

**Abijo, J.a. (Ph.D)**

Institute Of Education University of Ibadan Ibadan, Nigeria

**Dr. Otunla, AdekunleOlusola**

Institute Of Education, University Of Ibadan. Nigeria.

E-mail: [otunlad@yahoo.com](mailto:otunlad@yahoo.com);  
Tel: +234 (0) 802 335 4237

**Adams Onuka**

Institute of Education University of Ibadan, Ibadan. +2348033564064;  
[adamouka@yahoo.com](mailto:adamouka@yahoo.com) /  
[ao.onuka@mail.ui.edu.ng](mailto:ao.onuka@mail.ui.edu.ng)

**Junaid, Ikmatolanrewaju (Ph.D)**

Institute of Education, University of Ibadan. Phone No: 08057213851,  
E-mail address: [iojunaid@yahoo.com](mailto:iojunaid@yahoo.com)

**Famoroti, Adeola Ayodeji**

Institute of Education, University of Ibadan

**Simeon Oluwale Odede**

Institute of Education, University of Ibadan

**Dr. J.Gbenga Adewale**

International Centre for Educational Evaluation (ICEE)  
Institute of Education, University of Ibadan, Ibadan

**Ajayi, Kassim O. (PhD)**

Department of Educational Foundations, Tai Solarin University of Education, Ijagun, Ogun State, Nigeria ,  
[Ajayiko70@gmail.com](mailto:Ajayiko70@gmail.com)  
08029509495, 07056102241

**Oloda, F. S. Smart**

Institute of Science Education, National Mathematical Centre, Abuja, Nigeria.

**Lawani, Abisola O.**

Department of Mathematics, Tai Solarin University of Education, Ijagun, Ogun State, Nigeria

**Odinko, Monica N. (Ph.D)**

Institute of Education, University of Ibadan. [Moniquengozi@yahoo.com](mailto:Moniquengozi@yahoo.com)

**M. A. A. Raji**

**Oduntan, Felicia M. PhD**  
Lords Group of Schools Ilora,  
Oyo State. [lordssecondary@yahoo.com](mailto:lordssecondary@yahoo.com)  
Tel: 08060307628

**Joel Babalola**  
Department of Educational Management  
,University of Ibadan, Ibadan, Nigeria

**Dr. Adepaju M.A.**  
Institute Of Education, University of  
Ibadan

**Babatunde, Ezekiel Olusegun, Ph.D**  
Institute of Education, University of  
Ibadan. 08033325661,  
[batatundeezekiel11@yahoo.com](mailto:batatundeezekiel11@yahoo.com)

**Esther O. Durowoju**  
Institute of Education, University of  
Ibadan  
[durowjuesther@yahoo.com](mailto:durowjuesther@yahoo.com),[wojujumoke@fastermail.com](mailto:wojujumoke@fastermail.com)

**Oyenike, Oshin**  
[adeolayemioshin@yahoo.com](mailto:adeolayemioshin@yahoo.com)

**Adebiyi S. Oyekanmi**  
Institute of Education, University of  
Ibadan, Ibadan, Nigeria

**Dr. Joshua O. Adeleke**  
Institute of Education, University of  
Ibadan, Nigeria. [joadeleke@yahoo.com](mailto:joadeleke@yahoo.com)  
+2348033510688

**Esther Oduolowu Ph.D**  
Early Childhood Education Unit,  
Department of Teacher Education  
University of Ibadan, Ibadan,  
E-mail: [omorinola2000@yahoo.com](mailto:omorinola2000@yahoo.com)  
Phone: 08023250915

**Peter Kayode Olowe**  
Postgraduate Student, Early Childhood  
Education Unit,

Department of Teacher Education,  
University of Ibadan, Ibadan  
E-mail: [pokmanuk@yahoo.co.uk](mailto:pokmanuk@yahoo.co.uk),  
Phone: 08068730546

**Bakare Babajide Mike (Jnr)**  
[m.sc (statistics), M.ed (educational  
Evaluation)] Senior Assistant Registrar  
(WAEC)

**Eugenia A. Okwilagwe**  
Institute of Education, University of  
Ibadan, Ibadan.

**Lucky P. Oyeha**  
International Centre for Educational  
Evaluation,  
Institute of Education, University of  
Ibadan, Ibadan.

**Akorede, S.F.**  
Institute Of Education, Unviersity Of  
Ibadan

**Suraju Adeyemi M.Ed,**  
Institute of Education., University of  
Ibadan, Ibadan, Nigeria

**Modupe M. Osokoya**  
Institute of Education, University of  
Ibadan, Ibadan, Nigeria  
Email:  
[modupeosokoya@yahoo.com/mm](mailto:modupeosokoya@yahoo.com/mm),  
[osokoya@edu.ui.ng](mailto:osokoya@edu.ui.ng)

**Chinwe C. Nwazota**

**Benson Adesina Adegoke PhD**  
Institute of Education, University of  
Ibadan, Nigeria  
E-mail: [doctoradegoke@yahoo.com](mailto:doctoradegoke@yahoo.com)

**A.T. Onabamiro**  
Institute of Education, University of  
Ibadan, Nigeria



**M. A. A. Raji**

**Oduntan, Felicia M. PhD**

Lords Group of Schools Ilora,  
Oyo State. [lordssecondary@yahoo.com](mailto:lordssecondary@yahoo.com)  
Tel: 08060307628

**Joel Babalola**

Department of Educational Management  
University of Ibadan, Ibadan, Nigeria

**Dr. Adepoju M.A.**

Institute Of Education, University of  
Ibadan

**Babatunde, Ezekiel Olusegun, Ph.D**

Institute of Education, University of  
Ibadan. 08033325661,  
[batatundeezekiel11@yahoo.com](mailto:batatundeezekiel11@yahoo.com)

**Esther O. Durowoju**

Institute of Education, University of  
Ibadan  
[durowjuesther@yahoo.com](mailto:durowjuesther@yahoo.com), [wojujumoke@fastermail.com](mailto:wojujumoke@fastermail.com)

**Oyenike, Oshin**

[adeolayemioshin@yahoo.com](mailto:adeolayemioshin@yahoo.com)

**Adebiyi S. Oyekanmi**

Institute of Education, University of  
Ibadan, Ibadan, Nigeria

**Dr. Joshua O. Adeleke**

Institute of Education, University of  
Ibadan, Nigeria. [joadeleke@yahoo.com](mailto:joadeleke@yahoo.com)  
+2348033510688

**Esther Oduolowu Ph.D**

Early Childhood Education Unit,  
Department of Teacher Education  
University of Ibadan, Ibadan,  
E-mail: [omorinola2000@yahoo.com](mailto:omorinola2000@yahoo.com)  
Phone: 08023250915

**Peter Kayode Olowe**

Postgraduate Student, Early Childhood  
Education Unit,

Department of Teacher Education,  
University of Ibadan, Ibadan  
E-mail: [pokmanuk@yahoo.co.uk](mailto:pokmanuk@yahoo.co.uk),  
Phone: 08068730546

**Bakare Babajide Mike (Jnr)**

[m.sc (statistics), M.ed (educational  
Evaluation)] Senior Assistant Registrar  
(WAEC)

**Eugenia A. Okwilagwe**

Institute of Education, University of  
Ibadan, Ibadan.

**Lucky P. Oyeha**

International Centre for Educational  
Evaluation,  
Institute of Education, University of  
Ibadan, Ibadan.

**Akorede, S.F.**

Institute Of Education, Unviersity Of  
Ibadan

**Suraju Adeyemi M.Ed,**

Institute of Education., University of  
Ibadan, Ibadan, Nigeria

**Modupe M. Osokoya**

Institute of Education, University of  
Ibadan, Ibadan, Nigeria

*Email:*

[modupeosokoya@yahoo.com/mm.osokoya@edu.ui.ng](mailto:modupeosokoya@yahoo.com/mm.osokoya@edu.ui.ng)

**Chinwe C. Nwazota**

**Benson Adesina Adegoke PhD**

Institute of Education, University of  
Ibadan, Nigeria  
E-mail: [doctoradegoke@yahoo.com](mailto:doctoradegoke@yahoo.com)

**A.T. Onabamiro**

Institute of Education, University of  
Ibadan, Nigeria

## FOREWORD

---

This book focuses on the *raison d'être* for our involvement in Education, the promotion of Learning. This is the ultimate indicator of the success of an educational endeavour. Educational success cannot be certified, meaningful access to Education cannot be manifest and relevance and quality would remain empty slogans if Learning has not taken place. In fact, an educated person has since come to be defined as 'one who has learned how to learn.' Therefore, in addition to being the ultimate goal of Education, learning is also recognised as a process, since our entire existence is characterised by an unending engagement in lifelong and life-wide learning.

It is therefore a wise choice for Professor Tolu Wale Yoloye to have devoted the greater part of his research energy to this area of prime concern to the field of Education. I had the privilege of working with him in his formative years, in the early 80s as a member of a team that developed the Maths-Science Counselling Programme of the Institute of Education of the University of Ibadan. He has since *quietly* (very true to his affable character) dug deep into research into his special area of interest (factors facilitating human learning, mastery teaching for mastery learning, experiments on addressing psycho-social obstacles to learning, etc. ), and has produced valuable publications and good quality PhDs on the subject over the years.

A true alumnus of our *koboko-method* school, Tolu has continued to work, broadening and deepening the scope of his work in his area of special interest, since he knows very well that life (especially that of mature research and authoritative publications) begins at sixty.

The contributors to the book have approached the central theme from a variety of perspectives. Researchers have reported surveys and experiments that do what all genuine research activities do: contributing to knowledge while raising interesting issues for further research. The analytical essays have opened the floodgate to continued informed professional dialogue on improving learning outcomes in Education. The papers by practising teachers have reported and reflected on classroom experiences on the basis of which the search for continued improvement of learning outcomes can go on.

It is particularly heartening that the contributors have come from a range of institutions - universities, colleges of education, the school system and examination bodies. This shows the extent to which the Institute of Education of the University of Ibadan has spread its research and education support services tentacles. It also shows the extent to which Wale's type of quietly executed research activities are meaningfully impacting on the national education system.

I congratulate the Editor on this monumental production. With its publication, the Institute of Education has established a strong *festschrift* tradition of honouring contributors and contributions to academic excellence. I salute Tolu's devotion to the pursuit of academic excellence over the years. This compendium has brought under single volume knowledge, ideas and methodologies that would help further work on our continuous pursuit of Learning as a subject of academic interest and as the ultimate goal of all education endeavours. Readers will find in it a valuable work kit.

**Professor Pai Obanya**  
(International Education Strategist)  
Ibadan-Nigeria: April 2013



## PREFACE

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The decision to embark on the writing of this book titled: *LEARNING* was taken as a result of consultation between Professor T. W. Yoloye, a two-time substantive Director, Institute of Education, University of Ibadan, the first to so hold that position in substantive status and also a pioneer Dean, the College of Science and Information Technology, Tai Solarin University of Education, Ijebu-Ode, Nigeria and the Society for the Promotion of Academic Excellence as a 60<sup>th</sup> natal day present to Professor Tolu Wale Yoloye, a silent and unassuming achiever, an encourager who can be referred to as the 'Barnabas' of our time. He often goes round to encourage junior colleagues with the words: 'please ensure that you research well and publish because you can overtake'. The title 'learning' was arrived at because he has published widely both locally and internationally, even when it was not fanciful to publish 'off-shore', on the topic "Learning". He climaxed his publications on learning with the title: 'That We May Learn' as the title of his inaugural lecture which was delivered in 2004, ten years after he became a Professor. Professor PAI Obanya, the internationally acclaimed erudite scholar and an international education strategist and a mentor par excellence has this to say about TWY, whom he recruited when he was the Director of the Institute of Education in the 1980's: 'Yoloye is a silent and hardworking young man, whom many will not notice to be able to achieve such excellent research output'. Indeed, it will interest all to note that Professor Obanya submitted his own paper titled: Let's Bring Education Back to the Schools, less than twenty-four hours after he got the call for paper and he voluntarily contributed a substantial amount of money to assist in offsetting part of the cost of production of the book. This, he did in recognition of the untiring effort of TWY to contribute his quota to learning in Nigeria and beyond.

In like manner, even some of our colleagues in the Institute of Education and Faculty of Education, who could not contribute to this book acknowledged his feats as academic and wished him well. However, Professor Joel B. Babalola, another great mentor within this university and the foundation president of the African Regional Higher Education Research and Policy Network (HERPNET) to which the editor of this book belongs and is the vice-president and the chair of its editorial board, would not want to be missed out and so he not only contributed promptly, but also contributed his 'widow's mite' to assist in meeting the production cost of the book. His contribution to this book is *Enhancing Learning to Teach: An Analysis of the New National Teacher Education Policy [NTEP]* in Nigeria.

Several sub-disciplines of learning and/or education were covered by several scholars including many senior researchers in the Institute, lecturers and researchers elsewhere in the country who had benefited from his services as a research fellow or research professor, sub-dean, director, dean and a mentor. The contributors include Dr. O.S. Akinsola of NERDC, Dr. HO Owolabi of the University of Ilorin, Dr. Oluwaponmile Gideon Adetunji of the Faculty of Education, The Nigeria Baptist Theological Seminary, Ogbomoso, Drs. Esther A,biola Oduolowu of the Department of Teacher Education, Joseph Abiodun Adegbile, Jeremiah Gbenga Adewale, Eugenia A. Okwilagwe, Monica Ngozi Odinko, Benson Adesina Adegoke, a High Chief, the



Gbaragbidin of Ikoyi in Osun State and a Researcher at the Institute of Education, Modupe M. Osokoya, Felix Osa Ibode, Joshua Oluwatoyin Adeleke, Kassim Ola Ajayi of Tai Solarin University of Education, Ikmat Olarenwaju Junaid, Serifat Funmilayo Akorede, Ezekiel Olusegun Babatunde, Adekunle O. Otunla, FS Akinwumi of the Department of Educational Management, UI, Sikiru A. Amoo, of Federal University Wukari, Taraba State.

Other contributors are Abimbola Wilson Awotedu, Johnson Abijo, AA Famoroti, Simon O Odede, Smart FS Oloda, AO Lawani, MAA Raji, FM Oduntan, MA Adepoju, Toyin Akinyemi, Esther Olajumoke Durowoju, Oyenike Oshin, Saheed Oyekanmi, Peter Olowe, MB Bakare, a statistician and evaluator of the Research Division and Headquarters Office of the WAEC, Lagos, Lucky Peter Oyeha, Suraju Adeyemi, Chinwe C. Nwazota of FGGC, Oyo, Unaeze Ugochi Chinonyerem of the Department of Educational Management, University of Ibadan and the celebrant as well as the editor who has a full chapter and also co-authored some other chapters with his mentees, just as did some of his other colleagues who contributed to this piece.

Varied but relevant and a few general topics were thoroughly discussed, most of the papers included in this epoch-making book are original and well-researched papers while others are succinctly organised and aptly presented conceptual papers, all of which will certainly engender effective learning if patiently read, studied, marked, digested and fully applied to any learning situation and in any field of learning across the globe. Some of these topics covered learning in general and learning as applied in the various fields of human development. We also have topics in areas of early childhood education/learning, enhancement of learning, assessment in learning and examination malpractice which results mainly because of absence of learning. There are topics in Mathematics learning, Chemistry learning, Economics learning, instructional technology or the application of electronic and communication technology in learning. It should be noteworthy that this book is useful across all levels of education and to all manners of persons with interest in promoting effective learning for human and the concomitant national development. The book is thus unreservedly recommended to all good will persons who have the interest of the development of the current and future generations at heart. Do have a happy reading.

**The Editor.**

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**TEACHER MOTIVATION AND TEACHER  
EFFECTIVENESS AS CORRELATES OF LEARNING  
OUTCOME IN GOVERNMENT AMONG SENIOR  
SECONDARY SCHOOLS IN EKITI, NIGERIA**

**Junaid, Ikmat Olanrewaju  
And  
Famoroti, Adeola Ayodeji**

**Abstract**

*The quality of education provided in any society and nature of the change effected by that education are both dependent on the motivation of teachers and effectiveness of their teaching in schools. It determines the aspect of life and the world with which the learners are brought into contact. Hence, there is need to look into the motivation and teaching effectiveness of teachers as factors that could affect the learning outcomes of Government as a subject. The study therefore, sought to investigate teacher motivation and teacher effectiveness as correlates of students' learning outcome in SS2 Government among public secondary schools in Ekiti State. Multistage sampling technique was employed to select eighty (80) Government secondary school teachers and eight hundred (800) senior secondary school students from eighty public secondary schools in eight Local Government Areas in Ekiti state. A total of eight hundred and eighty (880) respondents were used in all. Three instruments were used for the study, namely: Teacher Motivation Questionnaire (TMQ), Teacher Effectiveness Rating Scale (TERS) and Student Achievement Test in Government (SATG) with reliability coefficients of 0.82, 0.83 and 0.79 respectively. Data were analysed using multiple regression. Results of findings show that teacher motivation (Salaries and other Fringe Benefits, Conducive Environment, Advancement on the Job, promotion) and teacher effectiveness had composite contribution to students learning outcome in Government ( $R = .555$ ; Adjusted  $R^2 = .261$ ;  $F_{(5, 75)} = 6.578$ ;  $P < .05$ ). It was also found that, there was a positive relative contribution of each factor to the learning outcome in Government, Salaries and Fringe benefits ( $\beta = .227$ ), Conducive Environment ( $\beta = .044$ ), Advancement on the job ( $\beta = .140$ ), promotion ( $\beta = .273$ ), and Teacher effectiveness ( $\beta = .239$ ). However, it was revealed that, only Salary and Fringe Benefits ( $\beta = .277$ ;  $t = 2.100$ ,  $P < .05$ ), Promotion ( $\beta = .273$ ;  $t = 2.587$ ,  $P < .05$ ) and Teacher Effectiveness ( $\beta = .239$ ;  $t = 2.95$ ,  $P < .05$ ) were the most influential factors that contribute to learning outcome in Government. It is therefore recommended that school stakeholders should employ different ways of motivating their teachers towards imparting the contents of the*



*curriculum effectively. School Principals should monitor very closely that the strategies employed by the teachers are in accordance with the contents of the school curriculum where the worthy policies of education are written.*

### **Introduction**

Government as a subject plays vital roles in developing the nation, as it unveils and inculcates into students the civics values inherent in the constitution and other bedrock of the state, etc. The poor governance in the country today that is increasing at an alarming rate day by day which is evident in the present political administration where insecurity, bombing, embezzlement, fund mismanagement, kidnapping, etc. become the order of the day as a result of inadequate preparation for future. Knowledge of Government as a subject has recently gained the attention of curriculum planners, by considering it as a panacea to all the irregularities in the country by incorporating it into school curriculum and also making it compulsory at all levels especially in secondary schools and in all tertiary institutions. Knowledge of Government as a subject becomes imperative for students because of its encapsulation of worthwhile beliefs, norms, values, customs, attitude and other bedrock that will be transferred through school curriculum. The level of development envisaged by a country in future depends on the amount of values transferred to students in the country.

According to Appadorai (2004), Government is an agent or machinery of a state through which the will of the state is formulated, expressed and realised, it is made up of those people that are saddled with the responsibility of making and enforcing the law, rules and regulations of the society; it furthermore deals with the authoritative allocation of resources. Government studies the machinery through which people are governed for the purpose of peaceful co-existence and survival, therefore, the citizen needs to have and appreciate the knowledge of Government, and it has become indispensable in the Governmental institutions and even in domestic affairs of individuals. Ogunde (2004) asserted that, the importance of Government as a discipline and as a key to human existence and intervention has been recognised in Nigeria since early 60s, also a certificate examination was taken on it at the ordinary level. Government is a living subject which relates to everyday human activities, it is therefore necessary to positively groom and develop students in secondary schools towards mastering the subject.

Szreter (1975) in Ogunde (2004) postulated that, "it was felt that a secondary school leaver could not be said to have been adequately prepared for life in modern society, if he/she could not appreciate such government topics like Organs of Government, Forms of Government, Election, Fundamental Human Right, Citizenship to mention but few." To corroborate this, the National Curriculum for Senior Secondary School listed the following objectives for Government as a subject

- To equip students with basic forms, tiers and type of Government necessary for useful living and higher education.
- To help educate and motivate citizen towards the goals and objectives of the state.
- To create responsible and responsive leadership through the dissemination of appropriate political rules and regulations.



- To also serve as intellectual training for its learners.
- To serve as a process of preparing students for citizenship education, and
- To also provide vocational training for political career.

It should be noted here that, in spite of the numerous importance and meaningful objectives of Government highlighted in the curriculum, literatures has revealed that, the outcome of the enrolled Government students in the public examinations is still not good as it is expected. Aruleba (2011) asserted that in the past few years, education system in the state has collapsed completely to the extent that National Examination Council (NECO) result could not scale over 2.2% success rate in almost all subjects students enrolled for in the state, particularly in social sciences subject. In the same view, Adelaja, (2012), posited the falling standard of education in Ekiti State has become a source of worry to many people both in the state and nationally. This to some extent can be traced down to some mechanism (teachers) put in place to impart and achieve these objectives. Therefore, subjects like Government should not be handled with levity hands; instead it should be committed into the hands of teachers that are effective (competent) and well-motivated in the school that is well facilitated with the needed quality facilities that will enhance the realisation of the national objectives of education of the country. For many years, educators and researchers have debated over which variable(s) influence students' achievement. This study, therefore, sought to look at what role the combination of teachers' motivation and teachers' effectiveness could play in students' learning outcomes in government in the senior secondary.

Barelson and Steiner (1964), cited in Ajayi and Ayodele (2002) defined motivation as an inner state that energizes and activates an individual towards a goal. Motivation relates to the drives, desire, needs and forces that move individuals towards the achievement of the goals. Motivators are therefore those measures and situations that induce and sensitize an individual to perform. In educational settings, there is a need for the school administrators to motivate their members of staff. The school system can be regarded as having low morale of personnel resulting in high attrition rate in the system. Adelabu (2005) investigation on teachers' attrition revealed that good number of teachers leave the profession intentionally for another jobs. Those that remain in the system are left with no option to face the escalating unemployment cum abject poverty in the country. Therefore the need to apply motivational theories or strategies to retain and equally make them effective cannot therefore be ignored.

Ofoegbu (2004) posited that teacher motivation naturally has to do with teachers' attitude to work. It has to do with teachers' desire to participate in the pedagogical processes within the school environment. It has to do with teachers' interest in student discipline and control particularly in the classroom. It can therefore be said that it could underlie teacher's involvement or non-involvement in academic and non-academic activities, which operate in schools. Teachers are the instruments of transformation that translates educational philosophy and objective into knowledge and skill and transfers them to students in the classroom. Classroom climate is important in teacher motivation. If a teacher experiences the classroom as a safe, healthy and happy place



with supportive resources to enhance optimal learning, he/she tends to participate beyond expectation in the profession.

Salaries and other fringe benefits are two of the many ways of motivating teachers, by taking care of physiological needs of the teachers such as food, clothing, and shelter which is considered basic for the survival of human beings. These needs can be satisfied with a good salary that is paid on regular basis. Other fringe benefits of teachers such as furniture allowance leave bonus, meal subsidy and health services should also be paid to them on the regular basis. When all these are met, they become motivators. Carnoy (2007) posited that, teachers know how to increase student learning but are not willing to do so unless they get pay premiums. At this stage every naira earned means much to the employee. It must be emphasised that irregular payment of salaries and fringe benefits to the teachers dampen their morale as their basic needs suffer, and this may adversely affect their job performance. Kazeem (1999) asserted that teachers and other school workers tend to remain contented and reasonably motivated as long as salaries are paid on time and they are promoted regularly.

Conducive environment is another motivational factor. Every teacher desires safety environment the physical, social and physiological environments of the school must be safe for staff so that they can be motivated. Ajayi (2007) posited that the safety needs become important to teachers, because it takes care of the areas like protection from danger, illness, economic disaster and free from fear etc. Adelabu (2003, 2005) opined that facilities in most schools are dilapidated and inadequate. Also Kazeem (1999) submitted that greater attention should be given to improving work-related conditions of teachers to improve the quality of education and to also increase the teachers' productivity and learning outcome of students.

Advancement on the job is also a way of motivating teachers to increase their productivity by allowing them to add more to knowledge, this is so imperative, because the educational system itself is not static. It is expedient for the school administrators to welcome such development and encourage teachers to embark on this, as it will make them increase in knowledge and motivate them to do more. This can be achieved through periodic attendance of teachers at seminars, workshops, and conferences for necessary updates and by granting study leave for any qualified teacher that apply for it.

In addition to these, promotion of staff is another factor, which is a great boost that enhances productivity in the school settings. Regular promotion immediately reflects on salary will motivate teachers to work harder than before and begin to anticipate a better future. On the other hand, a teacher that does not receive regular promotion because of poor records keeping in the ministry may not likely be committed to the work. Teacher effectiveness is defined as the collection of competencies and behaviours of teacher at all educational levels that enable students to reach desired outcomes, which may include the attainment of specific learning objectives as well as broader goals such as being able to solve problems, think critically, work collaboratively, and become effective citizens. Darling-Hammond (2000) put forward that school can make a great difference in term of student achievement, and a substantial portion of the differences is



attributable to teachers. This connotes that differential teacher effectiveness is a strong determinant of differences in student learning. Sanders (2002) pointed out in his explanation of teacher effectiveness that, it is essential for the teachers that is said to be effective to have adequate knowledge of the techniques and methods that are related to their profession and must understand that student learning must increase over the course of the year. Teacher effectiveness is related to how a teacher can manipulate all qualities within his/her reach to enhance students' better performance. Barbara (2009) posited that teacher effectiveness is a matter of the degree to which a teacher achieves the desired effects upon students.

Clarke (1993) submitted that teacher effectiveness involves ability to increase student knowledge. Teacher effectiveness involves the ability of teachers to provide instruction to different students of different abilities while incorporating instructional objectives and assessing the effective learning mode of the students. Good learning outcome is a function of teachers' effectiveness; teachers' effectiveness is related to how a teacher can manipulate all qualities within his/her reach to enhance students' better performance. Seweje, and Adeosun, (2005) shared the consensus that the quality of any education system depends very much on the effectiveness and motivation of the teachers.

The quality of education provided in any society and nature of the change affected by that education are both dependent on the motivation of teachers and effectiveness of their teaching in schools. The teacher occupies an unquestionable position of authority in schools. He determines the aspect of life and the world with which the learners are brought into contact. In short the multitudinous daily decisions made by teachers are fundamental bases of educative process in our schools. Hence, there is need to look into the motivation and teaching effectiveness of teachers as the factors that will affect the learning outcomes of students in all subjects, Government inclusive. The knowledge of Government as a subject helps in grooming and preparing the young adults that will take over the leadership (rulership, economy, peacekeeping, international relation, treaties, etc.) of the state in future, through the teachers that are saddled with the responsibility of interpreting and imparting the objectives of Government inherent in the curriculum to students. However, the outcomes of the enrolled students in the public examinations are still not good enough. A lot of research work has investigated ways of improving students' achievement looking at teacher factors and school related variables. The link between these variables and students' learning outcome in Senior Secondary School Government has not been exclusively determined. The study therefore investigated the extent to which teachers' motivation variable and teachers' effectiveness variable correlates students learning outcomes in Senior Secondary Schools in Ekiti State.

### **Research questions**

Based on the stated problem, the study provided answer to these research questions:

1. What is the composite contribution of teacher motivation (salaries and fringe benefit, conducive-environment, advancement on the job, and promotion) and teacher effectiveness students' learning outcome in Government?
2. What is the relative contribution of teacher motivation (salaries and fringe benefit, safety environment, advancement on the job, participation in decision



making, and promotion) and teacher effectiveness on learning outcome in Government?

3. Which of the independent variables in the model is/are most influential?

### **Methodology**

The study was a correlation design that adopts survey approach; there was no manipulation of variables in the study. The target population for this study comprised all Government teachers in Public Senior Secondary Schools and all SS 2 Government students in all public Senior Secondary Schools in Ekiti State. A multistage sampling technique was employed in the study. Simple random sampling was used to select eight (8) Local Government Areas out of the sixteen (16) that make up the state, while purposive sampling techniques method was used to select ten (10) public schools that offer Government as a subject from each selected Local Government Area. Also, purposive sampling technique was used to select one (1) Government teacher per school which formed the total number of eighty (80) teachers in all. However, simple random sampling was used to select ten (10) SS 2 Government students from each school that was used in the study to rate the effectiveness level of their Government teacher and also used to answer the achievement test, this amounted to 800 students in all. The total respondents for the study were 880 respondents. The unit of analysis for this study is teachers. The table below further explains the sample.

Two self-constructed and one adopted instruments were used to collect data. They are: Teachers' Motivation Questionnaire (TMQ); Teachers' Effectiveness Rating Scale (TERS) and Student Achievement Test in Government (SATG). Teachers' Motivation Questionnaire (TMQ, consisting of 44 items) was validated by subjecting it to face and construct validity with the help of experts in the institute; after that the survived items was administered to a population that is relatively large (60 respondents) and related in characteristics to the target population, thereafter cronbach alpha was used to estimate the reliability value of the instruments which was found to be 0.83. The second instrument, Teachers' Effectiveness Rating Scale (TERS, comprising 29 items) is also a self-constructed instrument. It was validated by subjecting it to face and construct validity with the help of experts in the institute; after that the survived items was administered to a population that is relatively large (260 respondents) and related in characteristics to the target population, thereafter cronbach alpha was used to select the items that are good, it was also used to estimate the reliability value of the instruments which was found to be 0.82. Third instrument, Student Achievement Test in Government (SATG, consisting of 40 items) was adopted from Olabisi, (2009). It is made up of 40 items multiple choice with four options per item, each having one correct option and three distracters. The instrument followed the order of SS1 third term syllabus. The reliability coefficient of the instrument was determined using test-retest method. The instrument was revalidated by administering it to the sample of fifty (50) students in Oranmiyan High School, Ile-Ife, after two weeks the same instrument were re-administered on the same sample. The two set of scores were correlated using Pearson Product Moment Correlation. The reliability coefficient of 0.79 was obtained. The instrument was also correlated with the students' scores in the similar school examination and concurrent reliability obtained was 0.73. Data were collected with the help of eight research assistants and analysed using multiple regressions



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### Results and Discussion

**Research Question 1:** What is the composite contribution of teacher motivation (salaries and fringe benefit, conducive environment, advancement on the job, promotion) and teacher effectiveness on learning outcome in Government?

**Table 1:** Intercorrelational Matrix of the variables

Y	X1	X2	X3	X4	X5	
Pearson correlation score	1.000	.375	.239	.125	.383	.377
Salary and benefit	.375	1.000	.208	-.097	.250	.353
Conducive environment	.239	.208	1.000	.314	.312	.083
Advancement on the job	.125	-.097	.314	1.000	-.083	.014
Promotion	.383	.250	.312	-.038	1.000	.190
Teacher Effectiveness	.377	.353	.083	.014	.190	1.000

The above table showed that multicollinearity does not occur among the five independent variables (salary and fringe benefits, conducive environment, advancement on the job, promotion) and teacher effectiveness, because the zero order correlation are lesser than 0.85; more importantly, none of the correlation among the independent variables is greater than 0.35

**Table 2:** Regression model summary of the variables

Model	R	R <sup>2</sup>	Adj. R <sup>2</sup>	Std Error of the Estimate
1	.555	.308	.261	9.258

**Table 3:** ANOVA of composite contribution of teachers' motivation and teachers' effectiveness on student learning outcome in SS 2 government

Model	SS	df	MS	F	Sig
1 Regression	2818.838	5	563.768	6.578	.000
Residual	6342.149	75	85.705		
Total	9160.988	79			

**a. Predictors:** (Constant), TeacherEffectiveness, AdvancementOnTheJob, Promotion, Salary and Fringe Benefit, Conducive-Environment

**Dependent variable:** Scores

The result in table 2 reveals that the combination of all the predictor variables (Salaries and fringe benefit, Conducive-environment, Advancement on the job, promotion and Teacher Effectiveness) are jointly related to the predicted variable (Students' learning outcome in SS2 Government), the correlation is positive and moderate ( $R = .555$ ). More importantly, they accounted for 26.1% of the variance in the Students' learning outcome in SS2 Government.



Furthermore table 3 ANOVA revealed that there is a strong joint contribution of the predictor variables (Salaries and fringe benefit, Conducive environment, Advancement on the job, promotion and Teacher Effectiveness) to students' learning outcome in SS2 Government  $F(5, 74) = 6.578, p < 0.05$ . Based on the result, it was revealed that teacher motivation and teacher effectiveness variables; when used together significantly contribute to students' learning outcomes in SS2 Government.

**Research Question 2: What is the relative contribution of teacher motivation (salaries and fringe benefit, conducive -environment, advancement on the job, promotion) and teacher effectiveness when each is use alone to explain learning outcome in Government?**

**Table 4: Regression Co-efficient of relative contribution of teacher motivation and teacher effectiveness on student learning outcome in SS 2 Government**

Model	Unstandardized Coefficient			Standardized Coefficient		Sig.
	B	Std. Error		Beta	t	
1 (Constant)	-55.449	20.514			-2.703	.009
<b>Salary and</b>						
Fringe benefit	1.487	.708	.227		2.100	.039
Conducive environment	.192	.486	.044		.394	.694
Advancement on the job	.672	.500	.140		1.344	.186
Promotion	1.733	.670	.273		2.587	.012
Teacher effectiveness	.247	.107	.239		2.295	.025

Dependent Variable: Scores

Table 4 reveals the relative contributions of the five predictor variables (salaries and fringe benefit, conducive-environment, advancement on the job, promotion and teacher effectiveness) to the students' learning outcome in SS2 Government as it was given by beta weight. The  $\beta$  value indicates the contribution of each of the five predictor variables to the criterion variable (students' learning outcome in SS2 Government). The higher the  $\beta$  value the greater the contribution of the predictor variable. This implies that salaries and fringe benefit, promotion, conducive-environment, advancement on the job and teacher effectiveness when used alone are important factors and motivators for Government teachers to increase students' learning outcomes in SS2 Government. This means that the more the teachers are motivated on salaries and fringe benefit, conducive-environment, advancement on the job, and promotion, the higher the students' learning outcome in SS2 Government. It also implies that, the more the teacher effectiveness is given attention to, the higher the students' learning outcome in SS2 Government. Since the standardized  $\beta$  coefficient of each of the predictor variables is positive, it can now be concluded that, each of the predictors; when used alone contributes to students learning outcome in SS 2 Government.

will bring out more improvement in the learning outcome of the students. This result is supported with the findings of other researchers like, Geeta and Francis (2002) that work on performance related pay and asserted that, pay structure is potentially an important incentive tool to make teachers more productive, the better the pay the better the input of teachers. In the same view the investigation of Glewwe and Jacoby (1994), on impact of teachers' salaries on student outcomes found that a positive impact of wages on achievement reflects the fact that higher wages likely attract better quality people into the pool for applicants for teaching jobs.

Secondly, the work environment of the teachers should be more conducive by providing good offices that is well furnished; a safe office where valuable materials can be kept should be provided; environment that is not devoid of internet services should also be made available; also the environment where teachers are teaching should not be vulnerable; while dilapidated buildings (both staffroom and classroom) should be renovated. When all these are met, it will serve as an urge for the teachers to do more on their job and this will definitely reflect positively on the students' learning outcome. This result is in agreement with Adelabu (2003, 2005), who found that facilities in most school are dilapidated and inadequate. In addition, Kazeem (1999), that submitted that greater attention should be given to improving work-related conditions of teachers to improve the quality of education and to increase the teachers' productivity and learning outcome of students.

Thirdly, teachers should be allowed (if not compelled) to put in for programmes that will keep them updated such as postgraduate studies, seminars, workshops, conferences, capacity building, etc. This will boost their morale and also earn them latest information on their area of specialisation that will improve their teaching as well as learning outcome of the students. This result however concurred with the findings of Adesoji (2004), Adili (2009) and Akinsanya (2006) that training could make a born teacher better. Teachers are to be exceptionally good in helping students to be high achievers, and teachers must have a sound training to make him knowledgeable. Angrist and Lavy (2001) also shared same view, that on-the-job teacher training can yield increases in student performance. Contrary to these results are the works of other researchers like Vegas, Pritchett and Experton (1999); Urquiola (2000); Vegas (2000) that found that, more education and experience do not necessarily lead to increases in students' learning. In addition, promotion of the teachers should be made timely and gain quick reflection on their take home (salary), this tends to ginger them up and put a responsibility of hard work on them and definitely it will bring about change in the learning outcome of the students. This result is supported by the Vroom **Expectancy theory (1964)** that proposed that a person will decide to behave or act in a certain way because they are motivated to select a specific behaviour over other behaviours due to what they expect that the result of that selected behaviour will be. In essence, the motivation of the behaviour selection is determined by the desirability of the outcome. If teachers did not see the expectancy (i.e. motivation), the level of valence input will be drastically reduced and the adverse effect will be on the student learning outcome.

Lastly, teachers' effectiveness can still be closely monitored by the stakeholders



(Principal, Vice Principal and H.O.D) to ensure that teachers are teaching the contents of the syllabus, also to ensure that they are not missing their periods. They should also ensure regular writing of lesson note and periodical continuous assessment. All these taken together will make teachers more effective and it will automatically increase the learning outcome of the students. Many research works in the field of education supported this result, like Jacob and Lefgren (2006) that found a positive correlation between a principal's assessments of how effective a teacher is at raising students' achievement. He suggested that administrator's rating may also be one of a comprehensive evaluation system to measure teachers' effectiveness in secondary schools. Reynolds (1998) also found that, teacher effectiveness has a significant effect upon student performance and based on this it will be a good idea on the part of the school principals and other stakeholders in the schools to adopt different ways of helping teachers to become more effective, such as creating an applied science of teaching to provide guidelines on how to teach, aiming some school reforms at the teacher at the classroom level instead of at the general school level only.

Table 5 revealed that salary and fringe benefit, promotion and teachers' effectiveness are most influential in the prediction of student learning outcome in SS2 Government. This means that salary and fringe benefit, promotion, and teachers' effectiveness have greater contributions to learning outcome of students in SS2 Government than conducive-environment and advancement on the job. This implies that Government teachers needed to be motivated more on salary and other fringe benefit by reviewing and improving the existing salary scale and structure. The way promotion is being awarded to teachers should also be improved upon; effort should be made to make it timely and accurate. The new improvement should also reflect on their monthly salary and in their status immediately.

For the teachers' effectiveness, the school administrators, principal, H.O.D. etc should ensure close and thorough supervision on teachers, by ensuring that teachers do not just go to class to teach only, but they should teach the contents of the syllabus sequentially and cover the syllabus, also their teaching should be based on adequately prepared lesson note that will allow sequential impartation and assimilation that will increase students learning outcome in Government. Teachers should be reminded and compelled to give periodic and continuous assessment since it is part of teachers' effectiveness that will increase students' learning outcome. It can now be said that, the more the most influential predictor variables are taken care of, the higher the students' learning outcome becomes. This result is well corroborated with the assertion of Seweje and Adeosun (2005) that the quality of any education system depends very much on the effectiveness and motivation of the teachers.

### **Conclusion**

The findings of this study revealed that all the teachers' motivation factors (salaries and fringe benefits, conducive-environment, advancement on the job, promotion) and teachers' effectiveness have significant contribution to students' learning outcome in Government. Considering the findings of this study, it was concluded that teachers'



motivation and teachers' effectiveness are critical variables in students' learning outcomes in secondary schools in Ekiti State, Nigeria.

### **Recommendations**

Based on the findings, it is recommended that:

- ❖ Effort should be made to provide for all the incentives that can motivate teachers to increase their input as well as learning outcome of the students.
- ❖ Promotion of the teachers should be regular as it plays important roles in the status of each teacher at the same time facilitate increment in students' learning outcome.
- ❖ There should increment in the salaries of the teachers and prompt payment of both salary and other fringe benefits. These serve as energizers to the teachers; this way they will be more zealous in their teaching which will also yield positive effect on the students' learning outcome.
- ❖ The study also recommends that conducive environment of the teachers should be looked into, by making the staff room safe, well-furnished and covered with internet service, this will allow them access to latest materials that can make them 21<sup>st</sup> century teachers. Teachers tend to be more motivated when they can compare themselves with other staff of the same qualifications in another establishment outside teaching profession.
- ❖ There should be on-the-job training for Government teachers, this will improve and keep them current. Since education is a continuous process, teachers are enjoined to see it as such by attending seminars, workshops, conferences, etc. to share knowledge with other colleagues in their field.
- ❖ The study also recommended that the school principals should monitor the teachers very closely to ensure that teachers are very effective. Principals should check the contents of the syllabus to see whether teachers are teaching them sequentially, and ensure the usage of instructional materials to teach students, and where there is need for students to go for excursion, the school principal should give his approval.

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