

ASSESSMENT OF THE INFLUENCE OF THE LEVEL OF  
HUMAN RESOURCES AS A COMPONENT OF  
INSTITUTIONAL CAPACITY ON ACADEMIC  
PERFORMANCE OF STUDENTS IN PUBLIC SECONDARY  
SCHOOLS IN USIGU DIVISION-BONDO DISTRICT, KENYA

B. O. ACHIENG<sup>\*</sup>

CHARLES M. RAMBO<sup>\*</sup>

PAUL A. ODUNDO<sup>\*\*</sup>

**ABSTRACT**

In the case of Kenyan academic institutions such as public secondary schools, the fruit of institutional capacity is the academic achievement of the students as reflected in the Kenya Certificate of Secondary Education (KCSE) results at the end of the four year course. Keeping in view all of the variables discussed by different other researchers, the researcher chose only those variables that are recognizable in the Kenyan educational system. This study was particularly keen on the assessment of the influence of the level of human resources as a component of institutional capacity on academic performance of students in public secondary schools in Usigu division-bondo district, kenya

<sup>\*</sup> DEPARTMENT OF EXTRA MURAL STUDIES, UNIVERSITY OF NAIROBI

<sup>\*\*</sup> DEPARTMENT OF COMMUNICATION AND TECHNOLOGY, UNIVERSITY OF NAIROBI

## INTRODUCTION

Disparities in performance continued to be noticed as one of the many challenges facing education. These variations had raised a lot of concern as the government expenditure on education was not only aimed at increasing enrolment but also ensuring that academic performance was improved in these institutions at minimum cost. The KCSE results had been poor in the recent years and as a result students who went through public secondary schools in Usigu division could not compete favorably for national opportunities in institutions of higher learning or training.

## OBJECTIVE OF THE STUDY

The study would be guided by the following objective: To assess the level at which human resources as a component of institutional capacity influence academic performance of students in public secondary schools in Usigu division.

## LITERATURE REVIEW

The Human Resources (HR) of an organization consist of all staff (teaching, managerial, and technical/support staff) engaged in any of the organization's activities. It is well-recognized that the human resources of any school are its most valuable asset. This is particularly true in learning institutions, where the people required to do the core work of the organization are highly trained individuals. In this study the focus will be on the teaching staff, with no less regard to the role played by the sub-ordinate staff in ensuring good academic performance of students such as preparing their meals in time, transporting them during academic performance enhancing tours, typing and producing their assessment tests, arranging their laboratories and libraries, and the list is endless.

In the United States, a study conducted by Motoko, Akiba, Gerald K. LeTendre, and Jay P. Scribner in the year 2004, revealed that the countries with better teacher quality produced higher academic achievement. These analyses provide empirical, cross-national evidence of the importance of investing in teacher quality for improving national achievement. According to National Academies in the year 2007, "Teacher quality is widely recognized by policymakers, practitioners, and researchers alike to be the most powerful school-related influence on a child's academic performance". Whether certification and standard setting will improve teacher quality

is a more complicated issue. U.S. studies such as those by Borman and Kimball (2005) and Rivkin, Hanushek, and Kain (2005), suggest that teacher quality is a significant factor in predicting student achievement; however, constructing measures of teacher quality is a challenging task because of the lack of consensus on what constitutes a qualified teacher. According to Akiba (2004), a highly qualified teacher is defined as fully certified, possessing a bachelor's degree, and demonstrating competence in subject knowledge and teaching. Many states still face difficulties in fully meeting these requirements (U.S. Department of Education, 2006), and data from the Council of Chief State School Officers (Blank, 2003) shows large state differences in the numbers of certified teachers providing instruction in subjects such as mathematics.

Many empirical studies have been conducted in the United States to identify the characteristics of teacher quality that are associated with higher student achievement. Several syntheses of these studies have identified teacher certification, subject matter knowledge, pedagogical knowledge, and teaching experience as significantly associated with higher student achievement or greater achievement gains (Darling-Hammond & Youngs, 2002; Rice, 2003; Wayne & Youngs, 2003; Wilson, Floden, & Ferrini-Mundy, 2001, 2002). Studies have found that students taught by teachers holding subject-specific certification achieve better. Empirical studies have revealed that students taught by teachers certified in mathematics score higher in both general mathematics and algebra than do students taught by teachers certified in other subjects. Contrary to these studies, Rowan, Correnti, and Miller (2002) found that subject-specific certification had no significant impact on elementary school students' achievement growth in mathematics or reading. These empirical studies seem to suggest that teacher certification matters in secondary schools but not in elementary schools (Rice, 2003).

In Africa, as in many other regions, the educational systems are confronted with challenges and many of these challenges directly or indirectly affect the teaching profession (Oplatka, 2007). In Nigeria, for example, Ogbodo (1995) argues that the quality of education depends to a large extent, on the quality of teachers. The quality of education and learning achievements of students depend heavily on the quality, competence, personality and dedication of teachers. Also a good number of studies have shown that students' achievement has a positive relationship with the quality of teachers. The training which a teacher receives has been proved to be important to students' academic success. (Idiagbe, 2004).

In Kenya, stepping in most classrooms one is confronted with an authoritarian teaching style focusing on memorization and discipline, a legacy of the days of British rule in Kenya. Since the most important condition for quality is the professional development of teachers, teacher enrichment through quality development will be the answer to these outdated teaching styles. According to Odhiambo (2003) in the current climate, teacher redistribution, redeployment and retraining are essential. His research clearly showed that a greater percentage of secondary school teachers in Kenya felt that they did not have opportunities for teacher professional development programmes and despite the concerns raised by the educational administrators that teachers needed to upgrade their teaching skills constantly and that quality of teaching was crucial to the education system in general and school development in particular, there is still no firm policy on teacher continuous development.

## RESULTS AND DISCUSSIONS

### Influence of Human Resources on Academic Performance of Students

Three aspects of human resources were investigated. These were; academic qualification which closely related to staff development, adequacy and teaching experience.

#### Academic qualification of the teachers

According to the findings posted in table 4.3, all the head teachers had a minimum academic qualification of a bachelors degree. However, 2(25%) of the head teachers had masters degree while 6(75%) of the head teachers had bachelors degree. This indicated that all the head teachers were professionally qualified to head their schools. To determine any influence of the head teachers' academic qualification on the academic performance, a correlation test was run and the results were as follows:

**Table 4.14: Pearson's Correlation between education level of head teachers and academic performance of students.**

average	education
school	level of
performance	respondents
mean score	
for 2007,	

2008 and  
2009

average school	Pearson Correlation	1	-.285
performance mean	Sig. (2-tailed)	.	.494
score for 2007, 2008	N	8	8
and 2009			
education level of	Pearson Correlation	-.285	1
respondents	Sig. (2-tailed)	.494	.
	N	8	8

The test revealed that there was no significant relationship between the academic qualification of the head teachers and the academic performance of their students. This was a divergent opinion from that of Borman and Kimball (2005) who suggested that teacher quality is a significant factor in predicting student achievement. During the study, though, the researcher found out that some head teachers were pursuing masters degree. This was an indication that the head teachers appreciated the need to improve their academic qualification through furthering their education. The researcher also obtained the academic qualifications of the assistant teachers as reported in table 4.4. From the findings of the study, 63(70.8%) of the teachers had bachelors degree, 6 (6.7%) diploma, 2 (2.2%) had graduated with other degrees which were not education oriented, 1 (1.1%) with masters degree, 11(12.4%) of the sampled assistant teachers were found to be form four graduates. 2 (2.2%) of the teachers were P1 holders whereas 4 (4.5%) were university students on holiday. These findings reveal a serious problem of understaffing and shortage of qualified teachers. The researcher sought to determine if there was any influence of understaffing of school on the academic performance of students. A correlation test was run and the following were the findings:

**Table 4.15: Pearson’s correlation of professional qualification of assistant teachers and academic performance of students**

		average school mean covering the years 2007, 2008, and 2009	professional qualification
average school mean	Pearson Correlation	1	-.213(*)
covering the years	Sig. (2-tailed)	.	.045
2007, 2008, and 2009	N	89	89
professional	Pearson Correlation	-.213(*)	1
qualification	Sig. (2-tailed)	.045	.
	N	89	89

\* Correlation is significant at the 0.05 level (2-tailed).

The findings revealed a weak negative correlation between professional qualification of teachers and academic performance of students. The higher the academic qualification of the teachers, the lower the academic performance of the students. This is a serious departure from the argument advanced by Ogbodo (1995) who argued that the quality of education depends to a large extent, on the quality of teachers. This therefore implies that teacher’s effectiveness is not only a factor of academic qualification, but other factors also come into play, such as commitment to duty, motivation, and even the working environment. Those teachers who were qualified could also be complacent, hence the negative relationship.

#### **Adequacy of teachers**

The head teachers were asked to indicate the status of adequacy of teachers. They all responded with a ‘no’. This meant that there were not enough teachers in their schools. This was evident from their attempt to take care of the deficiency by employing teachers on BOG terms as shown in the table below:

**Table 4.16: Distribution of the respondents by employer**

<i>Employer</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cumulative Percent</i>
<i>BOG</i>	35	39.3	39.3	39.3
<i>TSC</i>	53	59.6	59.6	98.9
<i>volunteer</i>	1	1.1	1.1	100.0
Total	89	100.0	100.0	

From the results illustrated in table 4.16 above, 35(39.3%) of the assistant teachers were employed by the BOG. While 1(1.1%) of the teachers was a volunteer, 53(59%) of the teachers were employed by the TSC. This indicated a serious understaffing of public secondary schools in Usigu division. The researcher sought to establish the relationship between the number of teachers on the staff and the academic performance of students. Correlation between the two was run and the results tabulated as follows:

**Table 4.17: Pearson's correlation of number of teachers and academic performance of students**

		average school performance means core for 2007, 2008 and 2009	numbers of teachers in school
average school performance mean score for 2007, 2008 and 2009	Pearson Correlation	1	.661
	Sig. (2-tailed)	.	.074
	N	8	8
numbers of teachers in school	Pearson Correlation	.661	1
	Sig. (2-tailed)	.074	.
	N	8	8

No significant correlation was found to exist between the number of teachers on the staff and the academic performance of students. This proved that it does not necessarily mean that the higher

the number of teachers on staff, the better the academic performance even though there was a serious case of understaffing in the division. The researcher found no substantive evidence that the poor academic performance could be blamed on understaffing. This revelation differed from the assertions of Odhiambo (2003) that teacher redistribution and redeployment were essential.

### Teaching experience of the teachers and academic performance of students

The researcher determined the teaching experience of both the head teachers and the assistant teachers. The years of experience of the head teachers were as shown in table 4.5. One (12.5%) of the head teachers had the longest teaching experience of 22years, followed by two others(25%) who had 21 years of teaching experience, and another two head teachers(25%) with 19 years of teaching experience. The three other head teachers (37.5%) had teaching experience of 15, 16, and 17 respectively. From the findings, the head teachers had relatively long years of teaching experience. To establish whether there the teaching experience of the head teachers had an influence on academic performance of students, a correlation test was run and the findings tabulated as follows:

**Table 4.18: Pearson’s correlation of teaching experience of head teachers and academic performance of students.**

		average school performance mean score for 2007, 2008 and 2009	years of experience
average school performance mean score for 2007, 2008 and 2009	Pearson Correlation	1	-.186
	Sig. (2-tailed)	.	.659
	N	8	8
years of experience	Pearson Correlation	-.186	1
	Sig. (2-tailed)	.659	.
	N	8	8

From the findings in table 4.18 above, no significant correlation was found to exist between the years of experience of the head teachers and the academic performance of the students. This meant that it is not necessarily true that a more experienced head teacher would produce better student performance than one with fewer years of teaching experience. This finding deviates from the view held by Darling-Hammond & Youngs (2002) that teaching experience is significantly associated with higher student achievement or greater achievement gains.

The researcher also obtained data concerning the teaching experience of the assistant teachers. These were presented in table 4.6 above. The findings of the distribution of teachers by number of years of teaching experience revealed a crucial trend. 26(29.2%) of the teachers had only 0-2 years of experience, indicating that they were newly employed. 17(19.1%) and 18(20.2%) of the teachers had teaching experience of 6-10 years and over 10 years respectively. Majority of teachers were found to have teaching experience of 3-5 years. Those who had over ten years of teaching experience seemed to move out of TSC for better jobs or diminish due natural attrition and retirement. The possible relationship between the years of experience of the assistant teachers and the academic performance of students was investigated by the researcher through a correlation test and the results were tabulated as follows:

**Table 4.19: Pearson’s correlation of number of years of teaching experience of teachers and academic performance of students**

		average school mean covering the years 2007, 2008, and 2009	teaching experience of the respondent
average school mean	Pearson Correlation	1	.174
covering the years 2007, 2008, and 2009	Sig. (2-tailed)	.	.104
	N	89	89
teaching experience of the respondent	Pearson Correlation	.174	1
	Sig. (2-tailed)	.104	.
	N	89	89

In view of the result of the Pearson' correlation, there was no significant relationship between the years of experience of assistant teachers and the academic performance of students. This meant that it is not necessarily true that the more the years of experience of a teacher, the better the performance of the students. This is still a deviation from the position taken by Darling-Hammond & Youngs (2002) that teaching experience is significantly associated with higher student achievement or greater achievement gains.

## CONCLUSIONS

All the head teachers were professionally qualified to head their schools. However, there was no significant relationship between their academic qualification and the academic performance of their students. There was a serious problem of understaffing and shortage of qualified teachers. A weak negative relationship existed between professional qualification of teachers and academic performance of students implying that the higher the academic qualification of the teachers, the lower the academic achievement of the students. This therefore implied that teacher's effectiveness was not only a factor of academic qualification, but other factors also came into play.

There was no significant correlation between the number of teachers on the staff and the academic performance of students. Even though there was a serious case of understaffing in the division, there was no substantive evidence that the poor academic performance could be blamed on understaffing. Most head teachers had sufficient matching experience. No significant correlation was found to exist between the years of experience of the head teachers and the academic performance of the students. This meant that it was not necessarily true that a more experienced head teacher would produce better student performance than one with fewer years of teaching experience.

Majority of teachers were found to have teaching experience of three to five years, Those who had more years of teaching experience seemed to move out of TSC for better jobs or diminish due natural attrition and retirement. There was no significant relationship between the years of experience of assistant teachers and the academic performance of students. This meant that it is not necessarily true that the more the years of experience of a teacher, the better the performance of the students.

REFERENCES

- Aikman, S. & Unterhalter, E. (2005). *Beyond access: Transforming policy and practice for gender equality in education*. London: Oxford.
- Akiba, M. (2004). *A cross-national analysis of student victimization: Educational inequality and school violence*. In S. Paik (Ed.), *Productivity analyses of national databases* (pp. 205–224). Greenwich, CT: Information Age.
- Armstrong, M.(2004).*Human resource management theory and practice*. London: Bath Press Ltd.
- Averett, S. and McLennan, M.(2004). *Exploring the effect of class size on pupil achievement: what have we learned over the past two decades*. In *international handbook on the Economics of Education* (eds G. Johnes and J. Johnes). Cheltenham:Elgar.
- Balunywa, W. S. (2000). *A handbook of business management*. Kampala: Ugandan Press.
- Belkin, G. S. (1981). *Practical Counseling in Schools 2nd ed.* (Dubuque, Iowa: William C. Brown).
- Blank, R. (2003). *Meeting NCLB goals for highly qualified teachers: Estimates by state from survey data*. Washington, DC: Council of Chief State School Officers.
- Borman, G. & Kimball, S. (2005). *Teacher quality and educational equality: Do teachers with higher standards-based evaluation ratings close student achievement gaps?* *Elementary School Journal*, 106(1), 3–20.
- Brumbach, G.B. (1988). *Some issues, ideas and predictions about performance management, Public personnel management*, Winter Press.
- Burtless, G. (1996). *Does money matter?: the effect of school resources on pupil achievement and adult success*. Washington DC: Brookings Institution.
- Chansarkar, B. A. and Michaeloudis, A. (2001). *Student profiles and factors affecting performance* *Int. j. math. educ. sci. technol.*, 2001, vol. 32, no. 1, 97–104, Pp 103-104
- Cole, G.A. (2002). *The administrative theory and workers' motivation*, Zante institute of administration Press Ltd, ABU Zaria, Nigeria.
- Coleman, J. S., et al (1966). *Equality of Educational Opportunity*. Washington DC: Government Printing Office.
- Darling-Hammond, L., & Youngs, P. (2002). *Defining “highly qualified teachers”: What does “scientifically-based research” actually tell us?* *Educational Researcher*, 31(9), 13–25.
- Dearden, L., Ferri, J. and Meghir, C. (2001). *The effects of school quality on educational attainment and wages*. *Rev. Econ. Statist.*, **84**, 1–20.
- Dolton, P. and Vignoles, A. (2000). *The effects of school quality on pupil outcomes: an overview*. In *Education, Training and Employment in the Knowledge-based Economy* (ed. H. Heijke), pp. 36–52. Basingstoke: Macmillan.
- Dustmann, C., Rajah, N. and van Soest, A. (2003). *Class size, education and wages*.

*Econ. J.*, **113**, F99–F120.

- Eshiwani, G.S. (1993). *Education in Kenya since Independence*. Nairobi: East African Educational Publishers.
- Gay, L.R (1976). *Educational Research Competencies for Analysis and application*: Ohio: Charles E. Merrill
- Grant .C. (2006) .*Emerging voices on teacher leadership: Some South African views*. Education Management Administration.
- Goethals G. R. (October, 2001). “Peer effects, gender, and intellectual performance among students at a highly selective college: a social comparison of abilities analysis Discussion Paper-61
- Hallinger’ P. and Heck, R.H. (1998). *Exploring the principals’ contribution to school effectiveness: 1989-1995*. School effectiveness and school improvement, 9(2), pp 157-191.
- Hanushek, E. A. (1979). *Conceptual and empirical issues in the estimation of education production functions*. J. Hum. Res., **14**, 351–388.
- Hanushek, E. A. (1986). *The economics of schooling: production and efficiency in public schools*. J. Econ. Lit., **24**, 1141–1177.
- Hanushek, E. A. (1997). *Assessing the effects of school resources on pupil performance: an update*. Educ. Evaln Poly Anal., **19**, 141–164.
- Hanushek, E. A., Rivkin, S.G. and Taylor, L. L. (1996). *Aggregation and the estimated effects of school resources*. Rev. Econ. Statist., **78**, 611–627.
- Hinton, P.R. (1995): *Statistics Explained; A guide for social science students*: London:Routledge.
- Honadle, B. W. (1981). “A Capacity-Building Framework: A Search for Concept and Purpose.” Public Administration Review **41**(5): 575-580.
- Howitt, A. (1977). *Improving Public Management in Small Communities*. Policy Note 77-3. Cambridge, Department of City and Regional Planning, Harvard University
- Hoxby, C. M. (2000). *The effects of class size on pupil achievement: new evidence from population variation*. Q. J. Econ., **115**, 1239–1285.
- Iacovou, M. (2002). *Class size in the early years: is smaller really better?* Educ. Econ., **10**, 261–290.
- Idiagbe, J.E. (2004). *Relationship between Education Facilities, Teachers Qualifications, School Location and Academic Performance of Students in Secondary Schools in Delta State*. Unpublished PhD Thesis. Delta State University, Abraka. inspectors and advisors in England”, School Organisation, Vol. 12 No. 2, pp. 201-35.
- Kothari, R.C. (2003). *Research Methodology methods and Techniques*. New Delhi International Ltd. Publishers.

- Krejcie, R.V. and Morgan, D.W. (1970). *Determining Sample Size for Research Activities*, Educational and Psychological Measurement.
- Krueger, A. (1998). 'Reassessing the view that American schools are broken', *Economic Policy Review*, Federal Research Bank of New York, March, vol. 4 (1), pp. 29–46.
- Krueger, A. (2000). 'An economist's view of class size research', Miliken Institute Award for Distinguished Economic Research paper.
- Krueger, A. (2003). *Economic considerations and class size*. *Econ. J.*, **113**, 34–63.
- Laine, R. D., Greenwald, R. and Hedges, L. V. (1996). *Money does matter: a research synthesis of a new universe of education production function studies*. In *Where Does the Money Go?: Resource Allocation in Elementary and Secondary Schools* (eds L. O. Picus and J. L. Wattenbarger), pp. 44–70. Thousand Oaks: Corwin.
- Leithwood, K., Seashore Louis, K.A., Anderson, S. and Wahlstrom, K. (2004). *How Leadership Influences Student Learning*, The Wallace Foundation, New York, NY.
- Leithwood, K., Day, C., Sammons, P., Harris, A. and Hopkins, D. (2006). *Seven Strong Claims about Successful School Leadership*, National College of School Leadership, Nottingham.
- Lewy, A. (1991). *Encyclopedia of Curriculum*. Oxford: Pergamon Press Plc
- Levačić, R. and Vignoles, A. (2002). *Researching the links between school resources and pupil outcomes in the UK: a review of issues and evidence*. *Educ. Econ.*, **10**, 312–331.
- Lindley, C. (1975). "Changing Policy Management Responsibilities of Local Legislative Bodies." *Public Administration Review* **35**(Special Issue): 797.
- Little, L. F. and Thompson, R. (1983). *Truancy: How parents and teachers contribute*.
- Maicibi, N. A. (2003). *Pertinent Issues in Employees Management*. M.P.K. Graphics (U) Ltd, Kampala.
- Marzano, R. J.; McNulty, B. A. & Waters, T. (2005). *School Leadership that Works: From Research to Results*. Alexandria, VA: Association for Supervision and Curriculum Development. Pp. 194
- Mpeirwe, J (2007). *Management of instructional materials and performance of teachers in primary schools in Kampala*. A dissertation submitted in Partial fulfillment for the Masters Degree in Education, Makerere: Kampala.
- Mugenda A. & Mugenda O. (2003). *Research Methods: Quantitative and qualitative approaches*, Nairobi, Acts Press.
- Mugenda, O.M. and Mugenda, A.G (1999). *Research Methods. Quantitative and Qualitative approaches*. Nairobi: Acts Press.
- Mutai, K. (2003). *Training of Teachers before being promoted to be Educational Administrators*. Daily Nation of 7<sup>th</sup> March. Nairobi: Nation Media Group.

- National Academies. (2007). *Study of teacher preparation programs in the United States*. Retrieved December 1, 2010, from <http://www.nationalacademies.org/teacherprep/>.
- Nwangwu, N. A. (1997): *The Environment of Crisis in Nigerian Educational System*. Co-operative Education 33(1) 87-95.
- Odhiambo, G.O. (2003). “*Teacher Appraisal And Its Significance For The Development Of A Quality Assurance Culture In Kenyan Secondary Schools*”: Doctoral thesis, University of New England, Armidale.
- Odhiambo, G.O. (2005). “*Teacher Appraisal: The Experiences Of Kenyan Secondary School Teachers*”, Journal of Educational Administration, Vol. 43 No. 4, pp. 402-16.
- Ogbodo, C.A. (1995). *Managing Educational Facilities in Schools in V. F. Peretomode (Ed.) Introduction to Educational Planning and Supervision*. Lagos: Joja Educational Research and Publishers Ltd.
- Ogembo, P.O. (2005). *Training needs of heads of department of secondary schools for effective curriculum implementation in Kenya: A Case of Eldoret Municipality*. Unpublished M.Phil Thesis.
- Okumbe, J.A. (1999). *Educational Management Theory and Practice*. Nairobi: Nairobi.
- Okumbe, J. A. (1998). *Educational Management: Theory and Practice*. Nairobi: Nairobi University Press.
- Organization for Economic Co-operation and Development. (2001). *Knowledge and skills for life: First results from the OECD Programme for International Student Assessment (PISA) 2000*. Paris.
- Orodho, A.J. (2003). *Essential of Education and Social Sciences Research method*; Nairobi; Masola Publishers.
- Osagie, R.O. (2001). *Facilities and University Development in Current Issues in Educational Management in Nigeria*. Ambik Press Ltd. People. Washington, DC: The World Bank.
- Rice, J. K. (2003). *Teacher quality: Understanding the effectiveness of teacher attributes*. Washington, DC: Economic Policy Institute.
- Rivkin, S., Hanushek, E., & Kain, J. (2005). *Teachers, Schools and Academic Achievement*. *Econometrica*, 73(2), 417–458.
- Rowan, B., Correnti, R., & Miller, R. J. (2002). *What large-scale, surveys research tells us about teacher effects on student achievement: Insights from the Prospects study of elementary schools*. *Teachers College Record*, 104, 1525–1567.
- The School Counsellor, 3'0(4), 285-291.
- Sacerdote, B. (2001). *Peer effects with random assignment: results for Dartmouth roommates* *The Quarterly Journal of Economics*, Volume 116, Number 2, 1 May 2001, pp. 681-704(24)
- Sashkin, M. & Sashkin, M. (2003). *Leadership That Matters*. San Francisco: Berrettkoehler Publishers Inc.

- Sokolow, A. D. (1979). *Local Governments in Nonmetropolitan America: Capacity and Will*. Washington, D.C., U.S. Department of Agriculture.
- Thompson, S. and Standfort, D.(1975). *Student attendance and absenteeism*. The Practioner.
- Universal Basic and Secondary Education.” *Working paper of the Project on Universal Basic and Secondary Education*. Cambridge, MA: American Academy of Arts and Sciences. University Press.
- U.S. Department of Education. (2006a). *Letter to the Chief State School Officers regarding states' good-faith efforts in meeting the highly qualified teachers goal*. Washington, DC: Author. Retrieved December 1, 2006, from <http://www.ed.gov/programs/teacherqual/hqtltr/index.html>
- Uwheraka, T. (2005). *Analysis of Space Dimensions and Physical Facilities in Senior Public Secondary Schools*. Unpublished M.Ed. Dissertation, Delta State University, Abraka.
- Wayne, A. J., & Youngs, P. (2003). *Teacher characteristics and student achievement gains: A review*. *Review of Educational Research*, 73(1), 89–122.
- Wehlace, G.G. and Rutter, R.A. (1985). *Dropping out: How much do school contribute to the problem*. *Teachers College Record*. 87(3), 374-392. 93 -113. *Africa: The case of Nigeria and Swaziland*. *Teaching and Teacher Education* 5(2).
- Wilson, S. M., Floden, R. E., & Ferrini-Mundy, J. (2001). *Teacher preparation research: Current Knowledge, Gaps, and Recommendations*. Seattle, WA: Center for the Study of Teaching and Policy.
- Wilson, S. M., Floden, R. E., & Ferrini-Mundy, J. (2002). *Teacher preparation research: An insider's view from the outside*. *Journal of Teacher Education*, 53(3), 190–204.
- Witziers, B., Bosker, R. and Kruger, M (2003). *Educational leadership and academic achievement: the elusive search for an association*. *Educational Administration Quarterly*, 39(3), 398-425.
- World Bank. (2003). *World Development Report 2004: Making Services Work for Poor*.
- Wosmann, L. (2003). *Schooling resources, educational institutions and pupil performance: the international evidence*. *Oxf. Bull. Econ. Statist.*, 65, 117–170.
- Yvonne B, Soyibo, K. (1998). “*An Analysis of High School Students' Performance on Five Integrated Science Process Skills*” *Research in Science & Technical Education*, Volume 19, Number 2 / November 1, 2001 Pp 133 – 145
- Zimmerman, B. J. (2000). *Attaining self-regulation: A social cognitive perspective*. In M. Boekaerts, P. R. Pintrich, & M. Zeidner (Eds.), *Handbook of self-regulation* (pp. 13-39). San Diego: Academic Press.