

**EFFECTS OF COMPUTER-BASED LEARNING IN ACADEMIC  
PERFORMANCE IN SECONDARY SCHOOLS IN NYERI DISTRICT  
A CASE STUDY OF NYERI HIGH SCHOOL**

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## ABSTRACT

This study will be done to establish the implication of computer-based learning in secondary schools. The use of computers is widespread and growing rapidly. Schools have embraced the computer technology and are using computers as a tool for learning.

Computers are user friendly i.e. interactive and interesting to use and encourages the learners. Learning has currently adopted the computer technology where subjects taught formally on the chalkboard are now taught on computer screens. Teaching using this technology is easy even to the teachers.

Subjects that were hard for teachers and students have been simplified through practical demonstrations using a computer for example physics and chemistry among others.

Technology driven training reform has engulfed education in the school of study with expectations of advantages to reap and cause drastic improvement in student proficiency and understanding. The computer-driven technology in the school demands that students be able to use and operate in a computer environment.

The study aims at determining the challenges facing Information Communication Technology (ICT) integration in Secondary Schools in Nyeri County. The study is motivated by the rising concerns at the slow pace at which Secondary Schools are embracing ICT. The process of integration is also haphazard and the use of ICT is under-develop in the few schools that have adopted ICT. The study will be conducted in Nyeri high school within Nyeri County. Data will be collected using questionnaires. The collected data will be analyzed through qualitative and quantitative methods and presented in tables, graphs and pie charts. Qualitative data will be analyzed through the use of themes and categories. For quantitative data, analysis will be done by use of Microsoft word excel program to tabulate and compare data inputs.

In the study the researcher will employ questionnaires to gather the necessary data from the respondents. Questionnaires will be prepared for both students and teachers and the data collected will be analyzed and conclusion made.

The study will also be aimed at finding out the effects of computer-based learning Approach (CBL) on students' performance. The findings of the study will then aid in the acceleration of ICT integration in secondary schools. This is crucial as it will help mitigate the problem of accessibility, cost (affordability), quality and equity in education. ICT integration will make learning learner centered away from tradition where its teacher centered, making learning more interesting and make teacher's load more manageable. Teachers who are very overburdened by lots of lessons will benefit as some of the tasks will be easily handled through the use of ICT.

Education managers will also benefit in that they will make reliable decisions backed by sound statistical data. The policy makers such as educationist and government planners will also find the study useful because its finding will hasten the realization of some of the goals captured in Kenyan vision 2030, Millennium Development Goals, Education for all and the-e-commission for Africa of making member states ICT Compliant by 2015. The study is also intended to benefit other researchers who are interested in ICTs and ICT integration in education. It's the belief of the researcher that this study will compel stakeholders in education to appreciate the role of ICT integration in Education sector in general and secondary schools in particular.