

Effects of integration of ICT on secondary school students performance  
in Examinations in Kipipiri division of Nyandarua County

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## ABSTRACT

Secondary schools are vital institutions where learners' intellectual abilities and talents are nurtured. However, little attention has been paid to them by the ministry of Higher Education Science and Technology (MOEST). This has been much evidenced by little effort by the government to introduce Information Communication Technology (ICT) in most of the secondary schools especially those in rural areas. This prompted the researcher to find out the effects of ICT on secondary school students performance in Kipipiri division of Nyandarua County. Earlier economic research has failed to provide a clear consensus on the effects of ICT investments on learner's performance in secondary schools. The research focuses on the direct effects of ICT on standard explanatory factors since learners performance is explained by learner's characteristics, educational environment and teacher characteristics. ICT may impact these determinants and consequently the outcome of education. Although ICT equipments and usage are growing very fast in Kenya, the adoption in secondary schools is very slow and differs from one institution to another. This may explain the observed differences in students' performance. The researcher used qualitative approach method during the study and survey strategy in data collection. The researcher had two sets of questionnaires to collect the data. One set was for the teachers and the other one for students. The data collected has also shown that the government has done very little to equip secondary school with ICT facilities. According to the research findings, radio has been commonly used in teaching secondary school students and a small percentage of schools, has stated to use computer, discs and video tapes in teaching. According to the findings aged teachers shy away from integrating ICT in learning partly because they are not ICT literate. It has also been proved by the research that boys respond well in sciences than girls when ICT is incorporated in learning especially in science subjects. The researcher also recommends that girls should get motivated in sciences through the integration of ICT in learning. This is particularly for girl's schools. A big percentage of teachers are also not willing to use the ICT. Materials in learning although the materials may be available in their schools, It has also been noted that the use of ICT makes teaching and learning process easier by motivating learners because it makes learning of concepts easier. This can only be achieved if ICT facilities are going to be introduced in all schools. This is because most of the teachers in secondary schools are not ICT literate. A good number of students purports that the use of ICT in learning improves their performance in examinations. The researcher recommends that the government should train teachers on the use of ICT and also provide the ICT facilities in secondary schools so that ICT can be incorporated in learning to improve learners performance in examinations. The researcher also recommends that the government should offer free or subsidized ICT facilities in secondary schools. Teachers have also been sensitized on the importance and effects of ICT in learning. Finally the government also needs to organize seminars and workshops which would act as a platform for enlightening the teacher's on the vital role played by ICT to improve performance in secondary schools.