

**AN INVESTIGATION INTO THE INTERGRATION OF INFORMATION  
COMMUNICATION TECHNOLOGY IN THE TEACHING OF BIOLOGY IN  
SECONDARY SCHOOLS OF KITETA ZONE, MAKUENI COUNTY**

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## ABSTRACT

Performance of students in science subjects and particularly biology with the inclusion of ICT tools has become a key concern to teaching and learning in secondary schools. In efforts to improve the performance of students, the incorporation of ICT into the science course is critical. This is because it does and has an important level of enhancement. Although not as conclusive as one might hope, studies do indicate that ICT use in science education can improve learning and positively influence students' attitude and self-esteem. In this study, the researcher investigated the effects of ICT integration in the teaching of biology as one of the instructional techniques in the subject. It was carried out in Kiteta Zone of Makueni County. In order to obtain adequate information pertaining to the research problem, the researcher made use of questionnaires which were administered to Teachers and Students in the selected schools. The study employed survey research design where a population of 1,326 subjects was targeted. Out of the target population a sample of 72 respondents were contacted. The findings of the research were carefully analyzed using the Statistical Package for Social Sciences (SPSS). The study found out that computers are common used ICT tools for teaching biology because majority of the students contacted (75%) affirmed the statement that, Computers are important tools for the teaching of Biology. The study also confirmed the statement that Biology lessons are more interesting when taught using ICT tools thereby calling for the total integration of ICT tools in the teaching of biology in order to make the lessons more interesting for effective understanding of the biology concepts. However, despite the positive attributes attached to the inclusion of Computer technology in the teaching of Biology, it was found out that, although students want biology lessons to be taught using computers, they prefer textbooks to computers when studying biology. This is simply because the inclusion of computers in teaching biology consumes a lot of time which can be used for more teaching without the use of computers. The study also found out that students of Kiteta Zone have a positive attitude towards the inclusion of Computer technology in the teaching of Biology. This was clearly shown by the responses that the students gave to this effect. The following are the responses obtained from the students; Students frequenting Computer labs, alertness of the students when teaching is by use of the Computers, students sneaking Computer toys into the school compound, students typing in their assignments in Computers and students insisting on using Computers always.