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- Educational reforms and governance
- Research, innovation and knowledge transfer in education
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- Resource mobilization and utilization in education
Enhancing Quality of Education through Multimedia: The case of Teaching and Learning Science Subjects in Rwanda

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Abstract

This paper discusses the impact of using multimedia technology on teaching and learning science subjects in Rwanda. Multimedia, which consists of the integration of texts, color, graphical images, animation, audio sounds and full motion video in single application, enhances learning of the sciences by involving students in a learning-by-doing environment. It is in this regard that the Rwandan government has integrated technological media in the education system to boost quality of education. This paper, is based on a research that employed the descriptive survey design using both qualitative and quantitative methods. The study was based on the cognitive constructivist theory of multimedia (CCTM) which emphasizes that knowledge and understanding are constructed through words, pictures, animations, videos and audios. Data was gathered through document review and questionnaires. Thematic analysis and descriptive statistics were used to analyze the data and findings presented in texts and tables. The implication of the study is that multimedia technologies are an effective tool of teaching science, although schools are poorly equipped in terms of multimedia and where multimedia are provided teachers rarely use them.

Key words: Quality of education, multimedia, teaching-learning, science, mixed method research