

Influence of E-Learning Environment Program on Pupils' Instructional Approaches in Physics Measurement Lessons in Kenyan Secondary Schools

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This article explores the pupils' approaches and development of measurement concepts in an intervention that involved an e-learning environment in school physics conducted in a developing country, namely Kenya. A total of 118 secondary pupils enrolled in schools that could be visited conveniently in Nakuru district, Kenya were exposed to an e-learning environment program (ELEP) in physics for a period of six weeks. The ELEP physics module was developed from a physics course dealing with the concept of measurement. It was chosen because the majority of teachers viewed it as a topic that is difficult to teach through the regular method. The course was based on the Kenya Institute of Education (KIE) approved syllabus for science education, science textbooks and other relevant materials. Part of the investigation was to gain insight on the pupils' approaches and reactions to having to learn measurement concepts through ELEP. In order to achieve this, they were interviewed and other information captured during the physics course to understand what really transpired when they were learning measurement concepts using the ELEP lesson plan. The participants' classroom behaviors were captured using the Physics Practical Lessons Analysis System (PPLAS) and Classroom Practical Work Assessment (CPWA). A selected group of pupils were also interviewed to gain insight into their own expressions using the Pupils' Interview Guide (PIG). The results showed effective approaches and reactions that the pupils exposed to the computer-assisted lessons used to learn physics that differed markedly from those denied this program. For, the pupils in the experimental condition depended more on their peers and the program while their counterparts in the traditional class were solely dependent on the teacher. The study concludes that the use of ELEP to support conventional physics instruction can have substantial advantages over other instructional methods. Moreover, it proved that the use of ELEP enabled the learners not only to actively participate in the learning process and to engage fully in the instructional process but to also build a deeper understanding of measurement and procedural skills.

Keywords: Measurement, E-Learning, Environment, Lesson plan, Conventional, Understanding, Conceptual, Procedural

Introduction

Measurement skills are the tools and processes that students utilize to quantify the phenomena around them and thereby develop the necessary measurement knowledge, attitudes and skills. As such, they need to develop a good foundation of measurement skills if they are to carry out their investigations in physics and other related subjects (Roth & Roychoudhury, 1992; Takuma, 1997; Smith, Casey, & Wiser, 1985; Linder, 1992; Kiboss & Ogunniyi, 2002). The secondary level syllabus emphasizes the following sub-topics as necessary to build a good foundation for the concept of measurement in secondary school physics: 1) estimation and measurement of mass, length, and time; 2) standard form and significant figures; 3) determination of area, volume, and density (Kenya Institute of Education [KIE], 1992). It is through them that the physics teachers are expected to assist learners to develop the following measurement knowledge and skills: 1) accurate use of measurement instruments; 2) selection of appropriate measurement instrument; 3) appropriate use of units; 4) correct application of nota-

tions and symbols; 5) explanation of concepts of area, volume, and density; 6) estimation of various quantities and expression of their values in standard form (KIE, 1992).

Pupils in secondary level often begin formal physics education with a system of physical conceptions that differ in deeply systematic ways from those of the physicist (Roth & Roychoudhury, 1992; Takuma, 1997; Smith et al., 1985). However, these alternate conceptions may manifest themselves as useful commonsense beliefs about the world (Smith et al., 1985; Linder, 1992; Kiboss & Ogunniyi, 2002). But these alternate conceptions are not addressed in introductory physics textbooks or by conventional physics classroom instruction (Roth & Roychoudhury, 1992; Takuma, 1997; Smith et al., 1985; Linder, 1992). Given the traditional mode of teaching that is common in most third world science classrooms (Kiboss, 2000), the likelihood of pupils departing from beginning physics without an adequate understanding of the necessary physics concepts presented is high. Consequently, there is a high chance that their conceptual understanding about the physical phenomena may eventually be left unchanged. It is therefore necessary to facilitate pupils to interactively develop physics concepts for themselves by em-

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Resources in Education ,1995-04 Peace Corps Times ,1988 **Research in Education** ,1974 **Kenya National Assembly Official Record (Hansard)** ,2007-07-17 The official records of the proceedings of the Legislative Council of the Colony and Protectorate of Kenya the House of Representatives of the Government of Kenya and the National Assembly of the Republic of Kenya **Maker Education Meets Technology Education** ,2023-09-04 In this book two fields meet Technology Education with its long history and Maker Education a relative new shoot in the educational field Both focus on learning through making and both value agency and motivation of learners The purpose of this book is to understand and analyze the kind of informal and formal educational activities that take place under the umbrella of the Maker Movement and then relate this to the field of Technology Education to uncover what researchers innovators and teachers in this field can learn from the principles ideas and practices that are central to the Maker Movement and vice versa The book contains two types of chapters The first type is case study chapters that span from Mexico China Korea Denmark the Netherlands to Kenya and from primary to tertiary level showing a variety of good practices in maker education including both formal and informal contexts In the subsequent thematic chapters dedicated authors have used the case studies to reflect on themes such as curriculum reform social learning materiality spatial thinking informal versus formal learning as well as the sustainability of learning and relate what is happening in Maker Education with Technology Education to imagine possible futures for Maker Education Resources in Education ,1993 Issues in Resource Management and Development in Kenya Robert A. Obudho,J. B. Ojwang,2000 **The Booklist and Subscription Books Bulletin** ,1968 *Teaching and Learning Early Number* Ian Thompson,2008-10-16 This richly varied text offers generous support for every aspect of the teacher s role while constantly reminding us that mathematical activity is not a de contextualised skill that children possess but part of their identity their way of being in the world engaged with the world energetically and playfully trying to make sense of it Mary Jane Drummond formerly of the Faculty of Education University of Cambridge UK *Teaching and Learning Early Number* is a bestselling guide for all trainee and practising Early Years teachers and classroom assistants It provides an accessible guide to a wide range of research evidence about the teaching and learning of early number Major changes in the primary mathematics curriculum over the last decade such as the National Numeracy Strategy the Primary National Strategy the Early Years Foundation Stage and the Williams Review have greatly influenced the structure of this new edition The book includes A new introductory chapter to set the scene Six further new chapters including Mathematics through play Children s mathematical graphics and Interview based assessment of early number knowledge Six completely re written chapters and two updated chapters A new concluding chapter looking to the future The chapters can be read in a standalone fashion and many are cross referenced to other parts of the book where specific ideas are dealt with in a different manner Issues addressed include new research on the complex process of counting and on children s written mathematical marks counting

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