

Importance of Authentic Assessment- A Case Study with Scale Diagrams of Grade Ten Mathematics

K. L. H. Peiris¹, J. A. Weliwita^{2*}, U. Sedere³

The effectiveness of adopting authentic instruction and assessment methods in the teaching and learning process of mathematics in junior secondary level in schools are explored. Two comparable groups of students from grade 10 classes to follow conventional method and authentic methods are selected and the results are significantly favoring the authentic instructional and assessment methods in students' achievements. The differences were significant at $p=0.01$ in the achievement of higher order thinking skills. Similarly the three learning outcomes subjected to the study of two comparable groups were also significantly different at $p=0.05$. The study revealed that, the authentic instruction and assessments bring a positive effect on higher order thinking abilities. Authentic approach provides opportunities to the students to develop the 21st century skills beside the mathematical knowledge and skills.

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¹Postgraduate Institute of Science, University of Peradeniya, Sri Lanka.

²Department of Mathematics, Faculty of Science, University of Peradeniya, Sri Lanka
anushiw@pdn.ac.lk

³Sri Lanka International Buddhist Academy, Kundasale, Sri Lanka.