



Technology integrated guided inquiry-based learning approach and pre-service mathematics teachers' attitude towards learning geometry

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ABSTRACT

The study investigated the effects of technology-integrated guided inquiry (TGIBI), guided inquiry (GIBI), and traditional (TRAD) strategies on pre-service mathematics teachers' attitudes towards geometry in college of teacher educations. The study employed nonequivalent quasi-experimental design with two experimental groups and control group. A three-stage sampling method was used. The experimental groups were exposed to TGIBI (n=48) and GIBI (n=38), while comparison group (n=30) with TRAD approach. The geometry attitude scale (GAS) questionnaire was the instrument employed to collect data from 116 PSMT. A one-way analysis of covariance, multiple comparison test and paired sample t-test were used to analyze data. The results of the study revealed that pre-service mathematics teachers who were exposed to the TGIBI had gained positive attitudes towards learning geometry than their counterparts exposed to the GIBI and TRAD, respectively. Moreover, the group taught with GIBI also shown to have a statistically significant difference with TRAD on attitude. Similarly, paired sample t-test also favored post-test score. Based on the results, TGIBI and GIBI approach should be embraced in the college of teacher educations to reinforce favorable attitudes towards learning geometry among pre-service mathematics teachers.

Keywords: technology-integrated guided inquiry, guided inquiry, attitude, geometry

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INTRODUCTION

Throughout history, geometry has been an important subject in the mathematics curriculums. It is a subject that provides skills such as logic, deductive reasoning, analytical reasoning, and problem-solving skills. In addition, geometry is a mathematical concept associated with other fields of mathematics such as measurement, algebra, calculus, trigonometry, etc. and is also employed by architects, engineers, physicists, and many other professionals. According to Fyfe et al. (2015), the lack of geometric ideas is the primary reason why students have trouble understanding mathematics. As a result, researchers stated that learners' mathematical learning abilities are highly correlated with geometric understanding (Atebe & Schafer, 2008, 2011; Clements et al., 2018; Hannafin et al., 2008).

The learning competency of mathematics and geometry is determined by factors such as attitude, instructional approaches, and teachers' content knowledge (Kilpatrick et al., 2001; Mazana et al., 2019; MOE, 2013). Attitude is considered to be a crucial contributor to higher or lower mathematics and geometry performance (Mohamed &

Waheed, 2011; Ngassa & Mbuti, 2017). An attitude is a positive or negative disposition towards an object, circumstance, concept, and/or event (Mentah et al., 2013). As a result, attitude must be assessed in order to explain variability in learners' mathematics and geometry understanding. According to Mohamed and Waheed (2011), the PSMTs' attitude toward geometry is a well-established factor that determines their geometry achievement and their future career in schools. In addition, Guner (2012) and Tapia and Marsh (2004) revealed that attitude towards geometry plays an important role in determining achievement in geometry. PSMTs' thoughts about the nature of mathematics learning and attitudes have a significant impact on their future teaching practices (Cooke, 2015).

From multiple viewpoints, researchers have suggested the existence of different components of attitudes. Davadas and Lay (2017), for example, suggested motivation, enjoyment, self-confidence, and value as components of attitudes. Likewise, Mullis et al. (2020) used enjoyment, confidence, and like as components of attitude. Similarly, attitude and its dimensions of attitude towards geometry, such as self-confidence, value, enjoyment, and motivation, have been examined and considered in this study (Syyeda, 2016; Tapia, 1996). According to

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