

A Study of Students' Learning Process in a Technology Hands-on Activity: Viewpoints from Reflection and Action

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Making technology product is a process of combining thinking and action. Thinking is focused on utilizing academic knowledge and working process as preparation before action, while action is focused on utilizing materials and tools to design and make a technology product. This study developed a technological learning module based on the Zimmerman's (1998) self-regulated learning theory. The module was employed to 30 junior high school students for the purpose of observing and analyzing the relationship between students' reflection and action. After eleven weeks of the teaching experiment, the following conclusions were made: (1) junior high school students have better performance on reflection than on action; (2) the instruction on technological learning should focus on the practice of technical and operation skills.

Keywords: self-regulated learning, reflection and action, practical assessment

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