

The Development of Science Worksheet Creating Guide Based on Inquiry and Practical Skills to Lead The Critical Thinking of Elementary School Teacher Students

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ABSTRACT

This study aims at: (1) producing the guide of science worksheet creating based on inquiry and practical skills, (2) obtaining empirical data about the ability of elementary school teacher students in creating lesson plans especially science worksheet based on Curriculum 2013 and their critical thinking level, and (3) obtaining empirical data on the worthines of the guide of science worksheet creating based on inquiry and practical skills to lead the effective learning in the implementation of Curriculum 2013 in Elementary School.

This research method was Research and Development (R & D) by adopting 4D procedural model, 'Four-D's Model of instructional design' from Thiagarajan. The research procedure consists of four development phases: (1) define, (2) design, (3) develop, and (4) disseminate. However, in this study only implemented until the development stage with a limited trial in a small class involving PGSD FIP UNY students.

The results of this research are as follows: (1) be produced the guide of science worksheet creating based on inquiry and practical skills, (2) the ability of elementary school teacher students in creating lesson plans especially science worksheet based on Curriculum 2013 and their critical thinking level is at very good level with score 3, 74 of a maximum score of 4,00 and (3) the guide of science worksheet creating based on inquiry and practical skills to lead the effective learning in the implementation of Curriculum 2013 in Elementary School is declared eligible to be used with the validation test score 3.75 (very high) of a maximum score of 4,00.

Kata Kunci: science worksheet, inquiry, critical thinking