

**The Development of Multimedia based Whiteboard Animation Technique to Improve Teachers' Capability in Implementing Classroom Action Research in Yogyakarta**

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***ABSTRACT***

Teachers' capability in implementing Classroom Action Research plays a significant role to the success of finding solutions of teaching and learning problems particularly to improve learning qualities. As the number of issue related to the development of classroom action research increase, a predominant problem for teachers is their capability in implementing classroom action research properly. This study has attempted to: (a) investigate the importance of identify teachers' obstacles in developing classroom action research; (b) develop an instructional multimedia based whiteboard animation to facilitate teachers in implementing classroom action research effectively.

This research is a Research and Development (R & D) which adopt Borg and Gall version of development model. The subjects of this research are elementary school teachers in Yogyakarta. Data was collected using questionnaire, observation, interview, and documentation study. To support the data collection, logbook and focus group discussion (FGD) were also carried out. Data were analyzed using descriptive-qualitative technique. Data analysis was done through data reduction, display data, and reflection drawing/verification. The results targeted in this research is the product of multimedia based whiteboard animation technique which is practical and easy to use by teachers in implementing classroom action research.

To fulfill the research purposes, a focus group discussion (FGD) was developed. As many as 40 teachers in Yogyakarta were involved in this FGD. This research indicates that as many as 67% teachers had been implemented CAR, however, 61% of the participants said that the procedure of doing CAR is the significant obstacle in implementing CAR. Meanwhile, the other problems faced by teachers in implementing CAR include understanding the concept of CAR, finding related references, and method of developing CAR, that were represented as many as 13%, 3%, and 16% respectively. In conclusion, based on those findings in the initial research, some materials that will be included into the multimedia based whiteboard animation technique are the concept of classroom action research, the stages or procedures in carrying out CAR, and the developing proposal and CAR report (with some examples included in the multimedia that will be developed).

Keywords: multimedia based whiteboard animation technique, classroom action research, teachers