

# The Effects for Web-based Collaborative Learning on Elementary Students' Writing Performance: Using Google Docs as...

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## ABSTRACT

Collaboration features of Google Docs allows multiple people to edit a document simultaneously. This feature can be used for teaching and learning online. Thus, Google Docs can be used as a collaborative tool for web-based collaborative learning. The research aimed to explore the application of Google Docs in web-based collaboration learning, whether it can improve the writing performance of elementary school students. The research was pretest-posttest design with two nonequivalent groups of quasi-experimental design. The subjects were forth grade students of two classes from an elementary school in Changhua County. The subjects were divided into two groups. The experimental group (EG) received web-based collaboration learning instructional model and the control group (CG) received traditional learning instructional model. The experiment continued with 8 weeks. The assessment conducted by the writing rating scale was to assess the students' performance on writing. The questionnaire of attitude toward writing and web-based collaborative learning experience were also analyzed. The results on this study indicate that the EG had higher writing performance than did the CG at the end of the study. On various writing performance sub-scores (i.e., content relevance, organizational structure and word choice), the EG scored higher than did the CG. In regard to attitudes toward writing: There is no significance in attitudes toward writing between the EG and the CG subjects after the study. In addition, the EG group subjects have positive responses to web-based collaborative learning curriculum.

Keywords : web-based collaboration learning、writing performance、Google Docs

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