THE EFFECT OF PROJECT-BASED LEARNING MODEL ASSISTED BY WORDWALL APPLICATION TO IMPROVE MATHEMATICAL CONCEPT UNDERSTANDING ABILITY OF ELEMENTARY SCHOOL STUDENTS

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ABSTRACT

This research is based on the ability to understand mathematical concepts of students, many students do not like learning mathematics because for them mathematics is difficult learning. This study aims to determine the influence of the project-based learning model assisted by wordwall application by comparing two classes, namely the experimental class and the control class. The subject of this study is grade II students of SD Negeri 1 Cipeundeuy, while the object is class II B and II C, the class was selected using the purposive sampling technique where at the consideration of teachers from the school and after being tested the class also has an equivalent level of mathematical concept mastery. This study uses a quantitative approach with a Quasi Experimental type research method and the research design used is Nonequivalent Control Group Design. Pretest, posttest and observation sheet are the data collection methods used. Based on the results of the study, the results of the t-test of two free samples showed a difference between the experimental and control classes; with a significance value of 2-tailed 0.042 < 0.05, H_o is rejected and H_1 is accepted. This shows that students who use the project-based learning model assisted by wordwall applications and students who use conventional learning have different ability to understand mathematical concepts. The normalized n-gain test results showed an increase in the experimental class of 66% while in the control class it was 22%, meaning that the class that used the project-based learning model assisted by the wordwall application had a greater improvement than the class that used the conventional learning model. Meanwhile, to find out whether there is an influence of the project-based learning model assisted by the wordwall application, a simple linear regression test was used and obtained a value of 0.048 < 0.05. If you look at the calculation of the > t table, 2.087 > 2.069 can be produced. Therefore, it can be concluded that the learning process using the project-based learning model assisted by the wordwall application has a difference from the learning process using the conventional learning model. The use of the project-based learning model assisted by the wordwall application also has a significant influence on students.

Keywords: Ability to understand mathematical concepts, project-based learning models and wordwall applications.