

THE INFLUENCE OF PROJECT BASED LEARNING MODELS ON UNDERSTANDING SCIENCE CONCEPTS

(Quasi-Experimental Research on Class IV Students of SDN Permata Biru)

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ABSTRACT

This research aims to evaluate the effect of using the Project Based Learning (PjBL) Model on understanding science concepts among class IV students at SDN Permata Biru. This research was conducted because there were problems with several students who were still having difficulty understanding the material. The research was conducted with a quasi-experimental design to compare understanding of science concepts between the group using PjBL and the control group using conventional methods. The research participants consisted of two groups of class 4, the samples taken were saturated samples of all students in the class. The experimental group applied PjBL in science learning for 4 meetings, while the control group continued to use conventional methods for 4 meetings. Data was collected through tests of understanding science concepts before and after treatment, as well as observations of the learning process carried out. Data analysis uses statistical techniques to compare scores for understanding science concepts between the two groups. The results of this research can be seen from a simple linear regression test which states that there is an influence of learning using the PjBL model on students' understanding of concepts. The magnitude of the influence of the PjBL model on understanding can be seen from the results of the effect size test of 1.55 which states that PjBL is very influential on understanding concepts, especially science material. So the PjBL model is able to make students understand the material being studied and can provide insight into the effectiveness of PjBL in increasing understanding of science concepts at elementary school level. It is hoped that the implications of this research can provide input for educators to consider using a more contextual and project based learning approach in an effort to increase students' conceptual understanding.

Keywords: *Project Based Learning, Understanding Science Concepts.*