

**THE EFFECT OF APPLICATION OF TECHNOLOGICAL
PEDAGOGICAL CONTENT KNOWLEDGE APPROACH WITH
DISCOVERY LEARNING MODEL TO INCREASE STUDENT
LEARNING OUTCOMES**

(Quasi Experimental Research Class V Theme 1 Sub-theme 3 “The Environment
And Its Benefits” At SDN 067 Nilem Buah Batu)

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ABSTRACT

This research is motivated by the low learning outcomes of elementary school students. The purpose of this study is to find out the improvement in student learning outcomes after using the TPACK (Technological Pedagogical Content Knowledge) approach with the Discovery Learning model in fifth grade students at SDN 067 Nilem Buahbatu Academic Year 2022/2023. From the pre-test that has been given to fifth grade students, it shows that the learning outcomes on the theme material 1 “Movement Organs of Animals and Humans” sub-theme 3 “Environment and its benefits” are low. Therefore, the authors are interested in conducting a study entitled "The Effect of Application of the TPACK (Technological Pedagogical Content Knowledge) Approach with the Discovery Learning Model to Improve Student Learning Outcomes". This research uses quantitative research with quasi-experimental method with non-equivalent control group design. The population used in this study were fifth grade students of SDN 067 Nilem Buahbatu, with a sample of two classes, namely class V C as the experimental class, and class V B as the control class. The data from this study were obtained using a multiple choice instrument as many as 31 questions were given at the time of the pretest before the learning process was carried out, and the posttest which was carried out after the learning process was carried out. From the results of the study, the average pretest for the experimental class was 51.09, and the posttest average was 69.48. While in the control class, the average pretest was

42.91, and the posttest average was 53.00. From the results of hypothesis testing at a significance level of 5%, sig. (2-tailed) of 0.000, which means less than 0.05. Based on the results of data analysis obtained, it can be concluded that learning using the TPACK Approach with the Discovery Learning model can improve student learning outcomes on the theme material 1 "Movement Organs of Animals and Humans" sub-theme 3 "Environment and its benefits" which can be seen from the increase in the average score. pretest to posttest mean.

Keywords: TPACK Approach, Discovery Learning Model, Learning Outcomes