

**PENGARUH MODEL *PROBLEM BASED LEARNING* (PBL)
BERBANTUAN APLIKASI PHET MATERI LISTRIK TERHADAP HOTS
SISWA KELAS VI SD**

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ABSTRAK

Penelitian ini dilakukan untuk mengetahui perbedaan HOTS siswa kelas VI SD antara kelompok siswa yang dibelajarkan menggunakan model *Problem Based Learning* (PBL) berbantuan aplikasi PhET dengan kelompok siswa yang dibelajarkan menggunakan model konvensional. Jenis penelitian ini yaitu eksperimen semu dengan rancangan *non equivalent post-test control group design*. Populasi penelitian ini yaitu seluruh siswa kelas VI SD di Gugus V Kecamatan Sukasada Kabupaten Buleleng yang berjumlah 192 siswa. Adapun sampel pada penelitian ini yaitu SD Negeri 5 Panji sebagai kelompok kelas eksperimen yang berjumlah 21 siswa dan SD Negeri 2 Sambangan sebagai kelompok kelas kontrol yang berjumlah 14 siswa. Dalam menentukan sampel penelitian menggunakan teknik *simple random sampling*. Pengumpulan data dilakukan dengan menggunakan instrument tes uraian. Data yang diperoleh, selanjutnya dianalisis menggunakan statistik deskriptif serta statistik inferensial (uji-t) Dengan demikian dapat disimpulkan bahwa terdapat pengaruh model *Problem Based Learning* (PBL) berbantuan aplikasi PhET materi listrik terhadap HOTS siswa kelas VI SD.

Kata Kunci : PBL, PhET, HOTS

**THE EFFECT OF THE PROBLEM BASED LEARNING (PBL) MODEL
ASSISTED BY ELECTRICAL PHET MATERIAL APPLICATIONS ON THE
HOTS OF CLASS VI STUDENTS IN ELEMENTARY SCHOOL**

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ABSTRACT

This study was conducted to determine the difference in HOTS of sixth grade elementary school students between groups of students who were taught using the Problem Based Learning (PBL) model assisted by the PhET application and groups of students who were taught using the conventional model. This type of research is a quasi-experimental design with a non-equivalent post-test control group design. The population of this study were all students of class VI SD in Cluster V, Sukasada District, Buleleng Regency, totaling 192 students. The samples in this study were SD Negeri 5 Panji as the experimental class group, totaling 21 students and SD Negeri 2 Sambangan as the control class group, amounting to 14 students. In determining the research sample using simple random sampling technique. Data collection was carried out using a description test instrument. The data obtained were then analyzed using descriptive statistics and inferential statistics (t-test). Thus, it can be concluded that there is an effect of the Problem Based Learning (PBL) model assisted by the application of PhET in electrical materials on the HOTS of grade VI elementary school students.

Keywords: PBL, PhET, HOTS