

**PENGARUH PENERAPAN METODE *PREDICT
OBSERVE EXPLAIN* (POE) BERBANTUAN *OUTDOOR
STUDY* TERHADAP PROSES SAINS IPAS SISWA
KELAS VI SD NEGERI 10 PEDUNGAN TAHUN
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Oleh

Ni Nyoman Triska Novita Dewi, NIM 2111031098

Program Studi Pendidikan Guru Sekolah Dasar

Jurusan Pendidikan Dasar

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh signifikan penerapan metode *Predict, Observe, Explain* (POE) berbantuan *Outdoor Study* terhadap keterampilan proses sains siswa kelas VI pada mata pelajaran IPAS di SD Negeri 10 Pedungan Tahun Ajaran 2024/2025. Latar belakang penelitian ini adalah rendahnya keterampilan proses sains siswa yang disebabkan oleh rendahnya literasi, kurangnya variasi metode pembelajaran, serta minimnya aktivitas pengamatan dan eksperimen di kelas. Penelitian menggunakan desain eksperimen semu dengan dua kelompok, yaitu kelompok eksperimen yang mendapatkan pembelajaran POE berbantuan *Outdoor Study* dan kelompok kontrol yang mendapatkan pembelajaran konvensional. Instrumen penelitian berupa rubrik observasi keterampilan proses sains. Hasil analisis data menunjukkan bahwa terdapat perbedaan signifikan antara kelompok eksperimen dan kontrol, baik pada rata-rata skor keterampilan proses sains kelompok eksperimen sebesar 82,6 dan kelompok kontrol 77,9, dengan nilai $t_{hitung} = 2,165 > t_{tabel} = 1,674$ ($\alpha = 0,05$, $dk = 54$), yang menandakan perbedaan signifikan. Uji-t menunjukkan $t_{hitung} > t_{tabel}$ pada taraf signifikansi 5%, sehingga hipotesis nol ditolak. Dengan demikian, penerapan metode POE berbantuan *Outdoor Study* terbukti efektif dalam meningkatkan keterampilan proses sains yang ternyata berpengaruh juga pada pemahaman konsep siswa pada mata pelajaran IPAS. Penelitian ini merekomendasikan penggunaan metode POE berbantuan *Outdoor Study* sebagai alternatif pembelajaran yang inovatif dan menyenangkan untuk meningkatkan kualitas pembelajaran sains di sekolah dasar

Kata Kunci: Metode *Predict, Observe, Explain, Outdoor Study*, Keterampilan Proses Sains

THE EFFECT OF THE APPLICATION PREDICT OBSERVE EXPLAIN (POE) METHOD ASSISTED BY OUTDOOR STUDY ON THE SCIENCE AND IPASY PROCESS OF GRADE VI STUDENTS OF STATE ELEMENTARY SCHOOL 10 PEDUNGAN IN THE 2024/2025 ACADEMIC YEAR

By

Ni Nyoman Triska Novita Dewi, NIM 2111031098

Primary School Teacher Education Study Program

Elementary Education Department

ABSTRACT

This study aims to determine the significant effect of the implementation of the Predict, Observe, Explain (POE) method assisted by Outdoor Study on the science process skills of grade VI students in the subject of Science at SD Negeri 10 Pedungan in the 2024/2025 Academic Year. The background of this study is the low science process skills of students caused by low literacy, lack of variation in learning methods, and minimal observation and experiment activities in the classroom. The study used a quasi-experimental design with two groups, namely the experimental group that received POE learning assisted by Outdoor Study and the control group that received conventional learning. The research instrument was a science process skills observation rubric. The results of data analysis showed that there was a significant difference between the experimental and control groups, both in the average science process skills score of the experimental group of 82.6 and the control group 77.9, with a t-test value = $2.165 > t_{table} = 1.674$ ($\alpha = 0.05$, $dk = 54$), which indicates a significant difference. The t-test shows $t_{count} > t_{table}$ at a significance level of 5%, so the null hypothesis is rejected. Thus, the application of the POE method assisted by Outdoor Study has proven effective in improving science process skills which also have an effect on students' conceptual understanding in the subject of science. This study recommends the use of the POE method assisted by Outdoor Study as an innovative and enjoyable learning alternative to improve the quality of science learning in elementary schools.

Keywords: Predict, Observe, Explain, Outdoor Study Method, Science Process Skills