

ABSTRAK

ELSA AMELIA : Pengaruh Model Pembelajaran *Predict Observe Explain* Terhadap Peningkatan Keterampilan Proses Sains Pada Materi Perubahan Lingkungan.

Keterampilan proses sains merupakan keterampilan yang digunakan untuk memahami fenomena, memperoleh dan menerapkan konsep sains yang dibutuhkan dalam pembelajaran abad 21. Penelitian ini bertujuan untuk menganalisis pengaruh model pembelajaran *Predict Observe Explain* terhadap peningkatan keterampilan proses sains pada materi perubahan lingkungan. Metode penelitian yang digunakan yaitu *quasi eksperiment* dengan *non-equivalent control group design*. Sampel penelitian yang dipilih yaitu dua kelas dan diambil dengan menggunakan teknik *purposive sampling*. Hasil penelitian menunjukkan bahwa keterlaksanaan pembelajaran menggunakan model *Predict Observe Explain* memperoleh nilai persentase 98% sangat baik pada aktivitas guru dan 96% sangat baik pada aktivitas peserta didik kemudian pada kelas tanpa menggunakan model *Predict Observe Explain* memperoleh nilai persentase sebesar 98% sangat baik pada aktivitas guru dan 94% sangat baik pada aktivitas peserta didik. Peningkatan keterampilan proses sains kelas eksperimen memperoleh nilai *N-Gain* sebesar 0.61 sedang dan kelas kontrol memperoleh nilai *N-Gain* sebesar 0.50 sedang. Kemudian diperoleh hasil uji *Mann-Whitney* dengan nilai $0.044 < 0.05$ H_0 ditolak H_1 diterima. Data diperkuat dengan nilai uji *effect size* 1.20 berpengaruh sangat besar. Hasil respon peserta didik menunjukkan hasil positif dan baik dibuktikan dengan persentase kelas eksperimen 78% baik dan kelas kontrol persentase 74% baik. Berdasarkan hasil penelitian maka dapat disimpulkan bahwa terdapat pengaruh positif dari penggunaan model *Predict Observe Explain* terhadap peningkatan keterampilan proses sains pada materi perubahan lingkungan.

Kata Kunci : Keterampilan Proses Sains, Model *Predict Observe Explain*, Perubahan Lingkungan.

ABSTRACT

ELSA AMELIA: *The Influence of the Predict Observe Explain Learning Model on Improving Science Process Skills in Environmental Change Material.*

Science process skills are skills used to understand phenomena, obtain and apply scientific concepts needed in 21st century learning. This research aims to analyze the influence of the Predict Observe Explain learning model on improving science process skills in environmental change material. The research method used is quasi-experimental with non-equivalent control group design. The research samples chosen were two classes and were taken using purposive sampling techniques. The results of the research show that the implementation of learning using the Predict Observe Explain model obtained a percentage score of 98% very good for teacher activities and 96% very good for student activities, then in classes without using the Predict Observe Explain model obtained a percentage score of 98% very good for teacher activities. and 94% were very good at student activities. Improving science process skills in the experimental class obtained an N-Gain value of 0.61 and the control class obtained an N-Gain value of 0.50. Then the results of the Mann-Whitney test were obtained with a value of $0.044 < 0.05$. H_0 was rejected. H_1 was accepted. The data is strengthened by the effect size test value of 1.20 which has a very large influence. The results of the students' responses showed positive and good results as evidenced by the percentage of the experimental class being 78% good and the percentage of the control class being 74% good. Based on the research results, it can be concluded that there is a positive influence from using the Predict Observe Explain model on improving science process skills in environmental change material.

Keywords: *Science Process Skills, Predict Observe Explain Model, Environmental Change.*