

Mar Atus Sholehah. 2023. *Penerapan Model Pembelajaran POE untuk Meningkatkan Keterampilan Proses Sains Siswa pada Materi Pencemaran Lingkungan*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura, Pembimbing Maria Chandra Sutarja.

ABSTRAK

Keterampilan proses sains merupakan salah satu keterampilan yang perlu dilatihkan kepada siswa. Penelitian ini bertujuan untuk mengetahui keterlaksanaan pembelajaran model *POE*, mengetahui perbedaan dan peningkatan keterampilan proses sains serta mengetahui respons siswa terhadap penerapan model pembelajaran *POE*. Metode penelitian yang digunakan yaitu *quasi experiment* dengan desain penelitian *nonequivalent control group design* yang dilaksanakan di SMP Nazhatut Thullab Kabupaten Sampang Tahun Ajaran 2022/2023. Hasil penelitian menunjukkan bahwa keterlaksanaan pembelajaran berada pada kategori sangat baik dengan nilai persentase 98,72% dan aktivitas keterampilan proses sains siswa berada pada kategori terampil dengan nilai persentase 70,05%. Uji hipotesis menunjukkan hasil nilai sig. $0,000 < 0,05$ sehingga dapat disimpulkan bahwa terdapat perbedaan keterampilan proses sains antara kelas eksperimen dan kelas kontrol. Peningkatan keterampilan proses sains siswa berdasarkan uji *N-Gain Score*, pada kelas eksperimen berada pada kategori sedang dengan hasil rata-rata 0,59 dan pada kelas kontrol berada pada kategori rendah dengan hasil rata-rata 0,25. Respons siswa terhadap penerapan model pembelajaran *POE* berada pada kategori sangat baik dengan nilai rata-rata persentase sebesar 87,41%. Kesimpulan dari penelitian ini yaitu model pembelajaran *POE* pada materi pencemaran lingkungan dapat meningkatkan keterampilan proses sains siswa serta dapat diterima dengan sangat baik oleh siswa.

Kata Kunci: keterampilan proses sains, model pembelajaran *POE*, pencemaran lingkungan

Mar Atus Sholehah. 2023. *The Application of POE Learning Model to Improve Students' Science Process Skills on Environmental Pollution Materials*. Thesis, Natural Science Education Study Program, Faculty of Education, University of Trunojoyo Madura. Adviser: Maria Chandra Sutarja.

ABSTRACT

Science process skills are one of the skills that need to be trained to students. This study aims to determine the implementation of POE model learning, know the differences and improve science process skills and find out student responses to the application of the POE learning model. The research method used is quasi experiment with nonequivalent control group design research design carried out at SMP Nazhatut Thullab, Sampang Regency for the 2022/2023 academic year. The results showed that the implementation of learning was in the very good category with a percentage value of 98.72% and the students' science process skill activities were in the skilled category with a percentage value of 70,05%. The hypothesis test shows the result of the sig value. $0,000 < 0,05$ so it can be concluded that there is a difference in science process skills between the experimental class and the control class. Improving students' science process skills based on the N-Gain Score test, in the experimental class was in the medium category with an average result of 0,59 and in the control class was in the low category with an average result of 0,25. Student response to the application of the POE learning model was in the very good category with an average percentage score of 87,41%. The conclusion of this study is that the POE learning model on environmental pollution material can improve students' science process skills and can be very well received by students.

Keyword: *environmental pollution, POE learning model, science process skills*