

ABSTRAK

FADELLA SYIFA ANDINI: “Pengaruh Model Pembelajaran *Level of Inquiry* Berbantu Media *Liveworksheet* Terhadap Peningkatan Keterampilan Proses Sains Siswa pada Materi Perubahan Lingkungan”.

Keterampilan proses sains merupakan bagian dari kecakapan abad 21 yang dapat dikembangkan dalam pembelajaran berbasis *level of inquiry*. Penelitian ini bertujuan untuk menganalisis pengaruh model pembelajaran *level of inquiry* berbantu media *liveworksheet* terhadap peningkatan keterampilan proses sains siswa pada materi perubahan lingkungan. Metode yang digunakan adalah *quasi eksperiment* dengan *non-equivalent pretest-posttest control group design*, dimana sampel dipilih melalui teknik *purposive sampling*. Hasil penelitian menunjukkan bahwa keterlaksanaan pembelajaran menggunakan model pembelajaran *level of inquiry* berbantu media *liveworksheet* memperoleh nilai persentase sebesar 100% pada kinerja guru dan 96,7% pada aktivitas siswa. Peningkatan keterampilan proses sains siswa kelas eksperimen dan reguler memperoleh nilai *N-Gain* sebesar 0,79 (tinggi) dan 0,62 (sedang), serta ditunjukkan dengan perolehan nilai signifikansi pada uji *t'* sebesar $0,002 < 0,05$ yang artinya terdapat perbedaan peningkatan keterampilan proses sains antara siswa pada kelas yang dengan dan tanpa menggunakan model *level of inquiry* berbantu media *liveworksheet*. Data tersebut diperkuat dengan perolehan nilai *effect size* sebesar 0,84 yang menunjukkan kategori berpengaruh besar. Hasil respon siswa terhadap pembelajaran memperoleh kriteria sangat baik dengan persentase 85,73%. Berdasarkan penelitian yang telah dilakukan dapat disimpulkan bahwa terdapat pengaruh positif dari penggunaan model pembelajaran *level of inquiry* berbantu media *liveworksheet* terhadap peningkatan keterampilan proses sains siswa pada materi perubahan lingkungan.

Kata Kunci: Keterampilan Proses Sains, *Level of Inquiry*, *Liveworksheet*, Pengaruh, Perubahan Lingkungan.

ABSTRACT

FADELLA SYIFA ANDINI: *“The Influence of the Level of Inquiry Learning Model Assisted by Liveworksheet Media on Increasing Students' Science Process Skills in Material of Environmental Change”.*

Science process skills are part of 21st century skills that can be developed in level of inquiry learning. This study aims to analyze the effect of the level of inquiry learning model assisted by liveworksheet media on improving students' science process skills in environmental change material. The method used was quasi-experimental with a non-equivalent pretest-posttest control group design, where the sample was selected through a purposive sampling technique. The results showed that the implementation of learning using the level of inquiry learning model assisted by liveworksheet media obtained a percentage value of 100% on teacher performance and 96.7% on student activity. Improving the science process skills of experimental and regular class students obtained an N-Gain value of 0.79 (high) and 0.62 (moderate), and was indicated by the acquisition of a significance value on the t' test of $0.002 < 0.05$, which means there is a difference in improvement science process skills among students in classes with and without using the level of inquiry model assisted by liveworksheet media. The data is reinforced by the acquisition of an effect size value of 0.84 which indicates a category with a large influence. The results of student responses to learning obtained very good criteria with a percentage of 85.73%. Based on the research that has been done, it can be concluded that there is a positive influence from the use of the level of inquiry learning model assisted by liveworksheet media on improving students' science process skills in environmental change material.

Keywords: *Environmental Change, Influence, Level of Inquiry, Liveworksheet, Science Process Skills.*