ABSTRAK

AGUNG NUGRAHA ASSYIFA SUGIARTO: "Pengaruh Model Pembelajaran *Problem Based Learning* Berbasis *Socio-Scientific Issue* Terhadap Kemampuan Berpikir Kritis Siswa Pada Materi Perubahan Dan Pelestarian Lingkungan Hidup.".

Pembelajaran di sekolah sudah seharusnya dapat mencapai kecakapan abad 21 yang salah satunya dengan melatihkan keterampilan berpikir kritis kepada siswa. Penelitian ini bertujuan untuk menganalisis Pengaruh Model Pembelajaran *Problem Based Learning* Berbasis *Socio-Scientific Issue* Terhadap Kemampuan Berpikir Kritis Siswa Pada Materi Perubahan Dan Pelestarian Lingkungan Hidup.. Metode yang digunakan adalah *quasi eksperiment* dengan desain *non-equivalent pretest-posttest control group*. Sampel dipilih melalui teknik *purposive sampling* terdiri dari 34 orang siswa pada masing-masing kelas eksperimen dan kontrol di SMAN 1 Pangalengan. Hasil penelitian menunjukkan bahwa keterlaksanaan pembelajaran menggunakan model pembelajaran *problem based learning* berbasis *socio-scientific issue* berkriteria sangat terlaksana dengan perolehan 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 keterampilan berpikir kritis antara siswa pada kelas yang dengan dan tanpa menggunakan model *problem based learning* berbasis *socio-scientific issue*. 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 85,00%. Berdasarkan penelitian yang telah dilakukan dapat disimpulkan bahwa terdapat pengaruh positif dari penggunaan model pembelajaran *problem based learning* berbasis *socio-scientific issue* dalam meningkatkan keterampilan berpikir kritis siswa pada materi perubahan lingkungan.

Kata Kunci: Keterampilan berpikir kritis, *Problem based learning,* Pengaruh, Perubahan Lingkungan, *socio-scientific issue*.

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ABSTRACT

AGUNG NUGRAHA ASSYIFA SUGIARTO: "*The Influence of the Problem Based Learning Model Based on Socio-Scientific Issues on Students' Critical Thinking Skills on the Material of Environmental Change and Conservation***".**

Learning in schools should be able to achieve 21st century skills, one of which is by training students' critical thinking skills. This study aims to analyze the Effect of the Problem Based Learning Model Based on Socio-Scientific Issues on Students' Critical Thinking Skills on the Material of Environmental Change and Conservation. The method used is a quasi-experiment with a non-equivalent pretest-posttest control group design. The sample was selected through a purposive sampling technique consisting of 34 students in each experimental and control class at SMAN 1 Pangalengan. The results of the study showed that the implementation of learning using the problem based learning model based on socio-scientific issues with criteria was very successful with a percentage score of 100% on teacher performance and 96.7% on student activity. The improvement of students' science process skills in the experimental and regular classes obtained an N-Gain value of 0.79 (high) and 0.62 (moderate), and was indicated by the significant value obtained in the t' test of 0.002 <0.05, which means that there is a difference in critical thinking skills between students in classes with and without using the socio-scientific issue-based problem based learning model. The data is supported by the effect size value of 0.84, which indicates a large influence category. The results of student responses to learning obtained very good criteria with a percentage of 85.00%. Based on the research that has been conducted, it can be concluded that there is a positive influence from the use of the socio-scientific issue-based problem based learning model in improving students' critical thinking skills on environmental change material.

Keywords: *Critical thinking skills, Environmental Change, Influence Problem based learning, socio-scientific issues.*

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