

**PENGARUH *PROBLEM BASED LEARNING* PADA MATERI
PENCEMARAN LINGKUNGAN TERHADAP KEMAMPUAN
PEMECAHAN MASALAH DAN KESADARAN BERKELANJUTAN
SISWA SMA**

SKRIPSI

*diajukan untuk memenuhi sebagian syarat untuk memperoleh gelar
Sarjana Pendidikan Biologi*



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UNIVERSITAS PENDIDIKAN INDONESIA
BANDUNG
2022**

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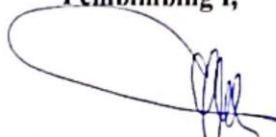
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ABSTRAK

Pengaruh *Problem Based Learning* pada Materi Pencemaran Lingkungan terhadap Kemampuan Pemecahan Masalah dan Kesadaran Berkelanjutan Siswa SMA

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Permasalahan kerusakan lingkungan, pemanasan global dan kelaparan yang terjadi di Indonesia dapat diperparah akibat kurangnya kemampuan masyarakat dalam memecahkan masalah dan kurangnya kesadaran masyarakat terkait permasalahan tersebut. Cara mengajar yang tepat untuk meningkatkan kemampuan pemecahan masalah dan kesadaran siswa tentang isu-isu berkelanjutan adalah dengan model pembelajaran berbasis masalah (*Problem Based Learning*). *Problem Based Learning* merupakan salah satu model pembelajaran yang mengorientasikan siswa pada permasalahan yang nyata sehingga dapat melatih kemampuan pemecahan masalah dan kesadaran siswa terhadap isu-isu berkelanjutan dalam mewujudkan tujuan SDG's. Tujuan penelitian ini adalah untuk mengetahui pengaruh *Problem Based Learning* pada materi pencemaran lingkungan terhadap kemampuan pemecahan masalah dan kesadaran berkelanjutan siswa. Metode penelitian yang digunakan pada penelitian ini adalah *quasi experimental* dengan desain penelitian *non-equivalent control group design*. Sampel terdiri dari 64 siswa yang terbagi menjadi 34 siswa kelas eksperimen dan 30 siswa kelas kontrol. Pengambilan sampel pada penelitian ini dilakukan dengan teknik *cluster random sampling* instrumen kemampuan pemecahan masalah pada penelitian ini diadaptasi dari Bransford & Stein, Barry (1993) dan instrumen kesadaran berkelanjutan/ *Sustainability Consciousness Questionnaire* (SCQ) dirumuskan oleh Gericke et al. (2019). Seluruh pengujian statistik pada penelitian ini diolah dengan menggunakan bantuan *software SPSS* versi 25. Hasil penelitian menunjukkan *Problem Based Learning* memberikan pengaruh terhadap kemampuan pemecahan masalah siswa, namun tidak memberikan pengaruh terhadap kesadaran berkelanjutan siswa.

Kata Kunci: *Problem Based Learning*, Materi Pencemaran Lingkungan, Kemampuan Pemecahan Masalah, Kesadaran Berkelanjutan.

ABSTRACT

The Effect of Problem Based Learning on Environmental Pollution Topic on Problem Solving Skill and Sustainability Consciousness of High School Students

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Environmental problems, global warming and famine that occur in Indonesia can be exacerbated by the lack of community ability to solve problems and lack of public awareness regarding these problems. The right way of teaching to improve problem solving skills and students awareness of sustainable issues is with a problem based learning model. Problem Based Learning is a learning model that orients students to real problems so that they can practice problem solving skills and students awareness of sustainable issues in realizing SDG's. the purpose of this study was to determine the effect of Problem Based Learning on environmental pollutoin material on problem solving and students sustainable awareness. The research method used in this study is a quasi-experimental research design with non-equivalent control group design. The sample consisted of 64 student who ware divided into 34 students in the experimental class and 30 students in the control class. Sampling in this study was conducted using cluster random sampling technique. The problem solving ability instrument in this study was adapted from Bransford & Stein, Barry (1993) and the Sustainability Consciousness Questionnaire (SCQ) was stated by Gericke et al. (2019). All statistical tests in this study were processed using SPSS version 25 software. The results showed that Problem Based Learning had an effect on student problem solving, but did not affect students sustainability consciousness.

Keywords: Problem Based Learning, Environmental Pollution Topic, Problem Solving Skill, Sustainability Consciousness.

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