

Fingki Aisyah Apriliana, 2022. *Penerapan Model Pembelajaran Local Wisdom Integrated Science (LWIS) Terintegrasi STEM untuk Mengembangkan Keterampilan Berpikir Kreatif*. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing: Nur Qomaria.

ABSTRAK

Penelitian ini bertujuan untuk mengetahui penerapan model pembelajaran *Local Wisdom Integrated Science (LWIS)* terintegrasi STEM dalam mengembangkan keterampilan berpikir kreatif siswa pada materi pencemaran lingkungan kelas VII SMP/MTs. Metode penelitian yang digunakan yaitu *Pre-experimental* dengan desain penelitian *One Group Pretest Posttest* dan dilaksanakan di MTs Rahmat Sa'id Kabupaten Jombang Tahun Ajaran 2021/2022. Uji Hipotesis menggunakan uji *paired sample t-test* sedangkan analisis peningkatan keterampilan berpikir kreatif menggunakan uji *N-Gain Score*. Hasil penelitian menunjukkan bahwa: 1) Ada perbedaan keterampilan berpikir kreatif setelah diterapkan model pembelajaran LWIS terintegrasi STEM dengan nilai signifikansi $0,000 < 0,05$ maka H_0 ditolak artinya H_1 diterima. 2) Peningkatan keterampilan berpikir kreatif siswa mencapai nilai *N-Gain Score* sebesar 0,36 dengan kategori sedang. 3) Keterlaksanaan penerapan model pembelajaran LWIS terintegrasi STEM nilai rata-rata 95% dengan kategori sangat baik. 4) Tanggapan siswa terhadap penerapan model pembelajaran LWIS terintegrasi STEM sangat baik diperoleh dari skor angket respons siswa dengan nilai rata-rata sebesar 92,98%. Secara khusus, kesimpulan dari penelitian ini yaitu penerapan model pembelajaran LWIS terintegrasi STEM dapat mengembangkan keterampilan berpikir kreatif siswa. Sarannya, ketika menerapkan model pembelajaran LWIS terintegrasi STEM hendaknya menggunakan kearifan lokal yang ada di daerah siswa dan rekonstruksi penyelesaian masalah tidak hanya sampai di rancangan tetapi sampai pembuatan produk.

Kata kunci: Keterampilan berpikir kreatif, model pembelajaran LWIS, pencemaran lingkungan, STEM

Fingki Aisyah Apriliana, 2022. *Implementation of Local Wisdom Integrated Science (LWIS) Learning Model Integrated STEM to Develop Creative Thinking Skills*. Thesis, Natural Science Education. Education Faculty, University of Trunojoyo Madura. Advisor: Nur Qomaria.

ABSTRACT

This study aims to determine of Implementation of Local Wisdom Integrated Science (LWIS) Learning Model Integrated STEM in developing students creative thinking skills on environmental pollution material for class VII SMP/MTs. The research method used is Pre-experimental with the research design of One Group Pretest Posttest and carried out at MTs Rahmat Sa'id, Jombang Regency, for the 2021/2022 Academic Year. Hypothesis testing uses paired sample t-test, while the analysis of increasing creative thinking skills uses the N-Gain Score test. The results showed that: 1) There were differences in creative thinking skills after the LWIS learning model integrated STEM was applied with a significance value of $0.000 < 0.05$, so H_0 was rejected, meaning H_1 was accepted. 2) The improvement of students' creative thinking skills achieved an N-Gain Score of 0.36 in the medium category. 3) The implementation of the LWIS learning model integrated STEM has an average value of 95% with a very good category. 4) Student responses to the application of the LWIS learning model integrated STEM were very good, obtained from the student response questionnaire scores with an average value of 92.98%. In particular, the conclusion of this study is that the application of the LWIS learning model integrated STEM can develop or improve students' creative thinking skills. Its suggestion, when implementing the LWIS learning model integrated STEM uses local wisdom that exists in the students area and the reconstruction of problem solving doesn't only arrive at the design but until make the product.

Keywords: *Creative thinking skills, environmental pollution, LWIS learning model, STEM*