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ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh penerapan model *LC-5E* berbantuan *SSI* terhadap literasi sains, peningkatan literasi sains pada kelas eksperimen, serta keterlaksanaan pembelajaran dan respons siswa dalam proses pembelajaran. Penelitian menggunakan *quasi-experimental design* dengan jenis rancangan *non-equivalent control group design* yang dilaksanakan di SMP Negeri 1 Sampang. Teknik pengambilan sampel menggunakan teknik *purposive sampling*. Pengumpulan data menggunakan tes literasi sains, lembar observasi keterlaksanaan pembelajaran, dan angket respons siswa. Teknik analisis data menggunakan uji T bebas. Hasil penelitian dapat disimpulkan bahwa 1) terdapat pengaruh penerapan model *Learning Cycle 5E* berbantuan *Socio Scientific Issues* yang terlihat pada perbedaan literasi sains siswa antara kelas kontrol dan kelas eksperimen. Rata-rata nilai *posttest* kelas kontrol sebesar 45.50 dan kelas eksperimen sebesar 67,90. 2) terdapat peningkatan literasi sains pada kelas eksperimen sebesar 0,42 yang berada dalam kategori sedang. 3) pelaksanaan pembelajaran model *Learning Cycle 5E* berbantuan *Socio Scientific Issues* yang dilakukan selama tiga pertemuan mendapat rata-rata persentase sebesar 90% dengan kategori sangat baik. 4) respons siswa terhadap pembelajaran dengan model *Learning Cycle 5E* berbantuan *Socio Scientific Issues* diperoleh persentase dengan rata-rata sebesar 90% dengan kategori sangat baik.

Kata Kunci: Literasi Sains Siswa, *Learning Cycle 5E*, *Socio Scientific Issues*

Nur Alvia Haliza. 2024. *Application of the LC-5E Model with SSI Assistance on Students' Scientific Literacy in Ecology and Biodiversity Material*. Thesis, Science Education Study Program, Faculty of Education, University of Madura. Supervisor: Try Hartiningsih.

ABSTRACT

This research aims to determine the effect of implementing the LC-5E model assisted by SSI on scientific literacy, increasing scientific literacy in experimental classes, as well as the implementation of learning and student responses in the learning process. The research used a quasi-experimental design with a non-equivalent control group design type which was carried out at SMP Negeri 1 Sampang. The sampling technique uses purposive sampling technique. Data were collected using scientific literacy tests, learning implementation observation sheets, and student response questionnaires. The data analysis technique uses the independent T test. The research results can be concluded that 1) there is an influence of the application of the 5E Learning Cycle model assisted by Socio Scientific Issues which can be seen in the differences in students' scientific literacy between the control class and the experimental class. The average posttest score for the control class was 45.50 and the experimental class was 67.90. 2) there was an increase in scientific literacy in the experimental class by 0.42 which was in the medium category. 3) the implementation of the Learning Cycle 5E model learning assisted by Socio Scientific Issues which was carried out over three meetings received an average percentage of 90% in the very good category. 4) students' response to learning using the 5E Learning Cycle model assisted by Socio Scientific Issues obtained an average percentage of 90% in the very good category.

Keywords: Students' Scientific Literacy, Learning Cycle 5E Model, Socio Scientific Issues