ABSTRAK

Muhammad Hasymi Mujaddi (1182060073): Pengaruh Pendekatan *Science Technology Religion Engineering Arts and Mathematics* (STREAM) Terhadap Keterampilan Berpikir Kritis (KBKr) Siswa pada Materi Ekosistem.

Kebiasaan berpikir (*habits of mind*) yang dikembangkan pada abad ke 21 ini salah satunya yaitu keterampilan berpikir kritis (KBKr). Penelitian ini bertujuan untuk mendeskripsikan pengaruh pendekatan *science, technology, religion, engineering, arts and mathematics* (STREAM) terhadap KBKr pada materi ekosistem. Metode penelitian yang digunakan adalah *mix method* dengan desain *embedded eksperimental design*. Sampel penelitian dipilih melalui teknik *purposive sampling*. Data hasil penelitian berupa Keterlaksanaan pembelajaran ekosistem melalui pendekatan STREAM memperoleh skor ketercapaian aktivitas guru sebesar 95% berkriteria sangat baik dan keterlaksanaan aktivitas siswa memperoleh skor 91% berkriteria sangat baik. Peningkatan KBKr siswa pada kelas eksperimen memperoleh rata-rata skor *N-gain* sebesar 0,67 berkriteria sedang, nilai tersebut lebih besar dari pada rata-rata skor *N-gain* kelas reguler sebesar 0,28 berkriteria rendah. Hasil perhitungan statistik uji *mann whitney u* menunjukan *Sig. 0,027* < 0,05 yang artinya terdapat perbedaan signifikan hasil KBKr siswa pada kelas eksperimen dan reguler. Hasil asesmen produk diorama ekosistem pada kelas eksperimen dan reguler berada pada kriteria sangat baik dan cukup baik, persentase siswa yang memperoleh kriteria sangat baik lebih tinggi pada kelas eksperimen. Kendala siswa ditemukan dalam pembuatan diorama ekosistem pada tahap memahami permasalahan, ide pembuatan produk, membuat desain langkah kerja, membuat produk, dan pengujian terhadap produk. Hasil penelitian menunjukan bahwa pendekatan STREAM berpengaruh signifikan terhadap KBKr siswa pada materi ekosistem. KBKr dapat dibekalkan melalui pendekatan STREAM.

Kata Kunci : Ekosistem; Keterampilan Berpikir Kritis; STREAM

ABSTRACT

Muhammad Hasymi Mujaddi (1182060073): *The Influence of the Science Technology Religion Engineering Arts and Mathematics (STREAM) Approach on Students' Critical Thinking Skills on Ecosystem Materials.*

The habits of mind developed in the 21st century is critical thinking skills. This study aims to describe the effect of the approach of science, technology, religion, engineering, arts and mathematics (STREAM) on critical thinking skills on ecosystem materials. The research method used is a mix method with embedded experimental design. The research sample was selected through purposive sampling technique. The data from the research in the form of the implementation of ecosystem learning through the STREAM approach obtained a score of 95% for the achievement of teacher activities with very good criteria and the implementation of student activities with a score of 91% with very good criteria. The improvement of students' critical thinking skills in the experimental class obtained an average N-gain score of 0.67 with moderate criteria, this value was greater than the average N-gain score for the regular class of 0.28 with low criteria. The results of the statistical calculation of the mann whitney u test show Sig. 0.027 <0.05, which means that there is a significant difference in the results of students' critical thinking skills in the experimental and regular classes. The results of the ecosystem diorama product assessment in the experimental and regular classes are in very good and quite good criteria, the percentage of students who get very good criteria is higher in the experimental class. Students' constraints were found in making ecosystem dioramas at the stage of understanding problems, product creation ideas, designing work steps, making products, and testing products. The results showed that the STREAM approach had a significant effect on students' critical thinking skills on ecosystem materials. Critical thinking skills can be provided through the STREAM approach.

Keywords*: Critical Thinking Skills; Ecosystem; STREAM*