ABSTRAK

Muhammad Alpat Iftikar Hanif (1182060070): Pengaruh Pendekatan *Science Technology Religion Engineering Arts and Mathematics* (STREAM) Terhadap Kemampuan Berpikir Analitis Siswa pada Materi Ekosistem.

Pembelajaran biologi Abad 21 identik dengan pemecehan masalah yang membutuhkan kemampuan berpikir analitis. Penelitian bertujuan untuk mengetahui pengaruh pendekatan *science, technology, religion, engineering, arts and mathematics* (STREAM) terhadap kemampuan berpikir analitis siswa pada materi ekosistem. Metode penelitian menggunakan *mix method* dengan desain *embedded eksperimental design*, dan teknik *purposive sampling*. Hasil penelitian; Keterlaksanaan pembelajaran STREAM memperoleh skor aktivitas guru sebesar 92% (sangat baik) dan aktivitas siswa memperoleh skor 82% (baik). Peningkatan kemampuan berpikir analitis siswa kelas eksperimen mendapatkan skor *N-gain* sebesar 0,54 (sedang), lebih besar dari skor *N-gain* kelas kontrol sebesar 0,30 (rendah). Hasil perhitungan uji *mann whitney u* menunjukan *Sig. 0,002* < 0,05 adanya perbedaan signifikan pada kelas eksperimen dan kontrol. Hasil asesmen produk alat peraga jaring-jaring makanan kelas eksperimen dan kontrol dengan kriteria sangat baik sampai kurang, produk siswa dengan kategori (sangat baik) hanya pada kelas eksperimen dengan persentase 40%. Kendala siswa terjadi pada pembuatan produk, memahami permasalahan, ide produk, desain langkah kerja, membuat produk, dan uji terhadap produk. Hasil penelitian menunjukan pendekatan STREAM berpengaruh signifikan terhadap kemampuan berpikir analitis siswa pada materi ekosistem.

Kata Kunci : Ekosistem; Kemampuanan Berpikir Analitis; STREAM

ABSTRAK

Muhammad Alpat Iftikar Hanif (1182060070): *The Effect of the Science Technology Religion Engineering Arts and Mathematics (STREAM) Approach on Students' Analytical Thinking Ability in Ecosystem Material.*

Biology learning in the 21st century is synonymous with problem solving that requires analytical thinking skills. The research aims to determine the effect of the science, technology, religion, engineering, arts and mathematics (STREAM) approach on students' analytical thinking skills in ecosystem material. research method uses a mix method with embedded experimental design, and purposive sampling techniques. Research result; implementation of STREAM learning obtains a teacher activity score of 92% (very good) and student activity scores 82% (good). Improving the analytical thinking skills experimental class students got an N-gain score of 0.54 (medium), greater than the control class's N-gain score of 0.30 (low). Results of the calculation of the Mann Whitney u test show Sig. 0.002 <0.05 there is a significant difference in the experimental and control classes. Results of the assessment of food web teaching aids for experimental and control classes with very good to poor criteria, student products in (very good) category were only in the experimental class with a percentage of 40%. Student constraints occur in making products, understanding problems, product ideas, designing work steps, making products, and testing products. Results showed that the STREAM approach had a significant effect on students' analytical thinking skills in ecosystem material.

Keyword : *Ecosystem; Analytical Thinking Ability; STREAMS*