

ABSTRAK

ANALISIS KEMAMPUAN BERPIKIR KREATIF PESERTA DIDIK KELAS X SMA PANGUDI LUHUR YOGYAKARTA DALAM PRAKTIK PEMBUATAN *ECO ENZYME* PADA MATERI BIOTEKNOLOGI

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Pendidikan Biologi

Penelitian ini dilatarbelakangi hasil positif dari implementasi pembelajaran berbasis proyek pada materi virus di SMA Pangudi Luhur Yogyakarta. Meskipun pendekatan ini telah menunjukkan hasil yang positif, belum ada penelitian yang secara khusus mengkaji tingkat kemampuan berpikir kreatif peserta didik dalam konteks pembelajaran berbasis proyek pada materi bioteknologi di sekolah tersebut. Penelitian ini bertujuan untuk mengetahui tingkat kemampuan berpikir kreatif, kemampuan berpikir kreatif berdasarkan aspek *fluency*, *flexibility*, *originality* dan *elaboration* serta penilaian diri peserta didik kelas X dalam penerapan pembelajaran berbasis proyek pada materi bioteknologi di SMA Pangudi Luhur Yogyakarta.

Penelitian ini menggunakan pendekatan kuantitatif deskriptif dengan metode survei. Populasi penelitian adalah peserta didik kelas X SMA Pangudi Luhur Yogyakarta, menggunakan teknik *purposive sampling* dan *convenience sampling*. Teknik pengumpulan data menggunakan tes kemampuan berpikir kreatif dan penilaian diri. Hasil penelitian menunjukkan bahwa tingkat kemampuan berpikir kreatif peserta didik tergolong baik dengan 29% sangat kreatif, 61% kreatif, 7% cukup kreatif, 3% kurang kreatif dan 2% tidak kreatif. Kemampuan berpikir kreatif peserta didik dengan rata-rata kemampuan berpikir kreatif 69,25%. Berdasarkan aspek *fluency* mencapai 58,94%, *flexibility* 68,73%, *originality* 67,92%, dan *elaboration* 74,42%. Penilaian diri peserta didik juga menunjukkan hasil positif dengan 2% sangat baik, 72% baik, dan 26% cukup baik.

Kata kunci: Kemampuan berpikir kreatif, pembelajaran berbasis proyek, bioteknologi, *eco enzyme*.

ABSTRACT

ANALYSIS OF THE CREATIVE THINKING ABILITY OF CLASS X STUDENTS OF PANGUDI LUHUR YOGYAKARTA HIGH SCHOOL IN THE PRACTICE OF MAKING ECO ENZYME ON BIOTECHNOLOGY MATERIAL

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Biology Education

This research was motivated by the positive results from the implementation of project-based learning on virus material at Pangudi Luhur High School Yogyakarta. Although this approach has shown positive results, no research has specifically examined the level of students' creative thinking abilities in the context of project-based learning on biotechnology material at the school. This research aims to determine the level of creative thinking ability, creative thinking ability based on aspects of fluency, flexibility, originality, and elaboration, as well as self-assessment of tenth-grade students in the implementation of project-based learning on biotechnology material at Pangudi Luhur High School Yogyakarta.

This research employed a descriptive quantitative approach with survey method. The research population was tenth-grade students of Pangudi Luhur High School Yogyakarta, using purposive sampling and convenience sampling technique. Data collection techniques utilized creative thinking ability tests and self-assessment. The results showed that the level of students' creative thinking ability was classified as good with 29% very creative, 61% creative, 7% moderately creative, 3% less creative and 2% not creative. The average creative thinking ability of students was 69.25%. Based on aspects, fluency reached 58.94%, flexibility 68.73%, originality 67.92%, and elaboration 74.42%. Students' self-assessment also showed positive results with 2% very good, 72% good, and 26% moderately good.

Keywords: *Creative thinking ability, project-based learning, biotechnology, eco enzyme.*