

Abstrak

Juliaman Sitopu. NIM. 8236166001. Pengembangan instrument penilaian *Higher Order Thinking Skills* (HOTS) berbasis digital untuk meningkatkan cara berpikir kreatif siswa kelas XI MIPAS-4 SMA Swasta Masehi Berastagi Tahun Pelajaran 2024/2025.

Penelitian ini bertujuan untuk mengetahui: (1) Kelayakan instrument penilaian *Higher Order Thinking Skills* (HOTS) berbasis digital untuk meningkatkan berpikir kreatif pada kelas XI MIPAS-4 SMA Swasta Masehi Berastagi (2) Keefektifan instrument penilaian *Higher Order Thinking Skills* (HOTS) berbasis digital untuk meningkatkan cara berpikir kreatif siswa di kelas XI MIPAS-4 SMA Swasta Masehi Berastagi. Penelitian ini merupakan penelitian pengembangan Borg and Gall yang disesuaikan dengan kebutuhan penelitian. Instrumen pengumpulan data menggunakan angket validasi ahli, angket respon guru, dan angket respon siswa. Populasi dalam penelitian ini adalah siswa kelas XI MIPAS-4 yang berjumlah sebanyak 30 siswa.

Hasil penelitian ini menunjukkan bahwa instrument penilaian *Higher Order Thinking Skills* (HOTS) berbasis digital layak digunakan dengan skor rata-rata mencapai 84,4% yang tergolong dalam kategori sangat baik dalam meningkatkan cara berpikir kreatif siswa. Selain itu juga, instrument penilaian *Higher Order Thinking Skills* (HOTS) berbasis digital terlihat efektif dalam meningkatkan berpikir kreatif siswa yang dibuktikan dengan hasil analisis uji-t dimana nilai sig 2 tailed sebesar $0,000 < 0,05$ maka H_0 ditolak dan H_a diterima sehingga ada perbedaan cara berpikir kreatif sebelum dan sesudah diberi perlakuan menggunakan instrument penilaian *Higher Order Thinking Skills* (HOTS) berbasis digital.

Kata Kunci: Pengembangan Instrumen Penilaian *Higher Order Thinking Skills* (HOTS), Digital, Berpikir Kreatif



Abstrac

Juliaman Sitopu. NIM. 8236166001. *Development of a digital-based Higher Order Thinking Skills (HOTS) assessment instrument to improve creative thinking of students in class XI MIPAS-4 SMA Swasta Masehi Berastagi in the 2024/2025 academic year.*

This study aims to determine: (1) the feasibility of digital-based Higher Order Thinking Skills (HOTS) assessment instruments to improve creative thinking in class XI MIPAS-4 SMA Swasta Masehi Berastagi (2) the effectiveness of digital-based Higher Order Thinking Skills (HOTS) assessment instruments to improve students' creative thinking in class XI MIPAS-4 SMA Swasta Masehi Berastagi. This research is a Borg and Gall development research that is adjusted to the needs of the research. Data collection instruments used expert validation questionnaires, teacher response questionnaires, and student response questionnaires. The population in this study were XI MIPAS-4 class students totaling 30 students.

The results of this study indicate that the digital-based Higher Order Thinking Skills (HOTS) assessment instrument is feasible to use with an average score of 84.4% which is classified as very good in improving students' creative thinking. In addition, the digital-based Higher Order Thinking Skills (HOTS) assessment instrument is effective in improving students' creative thinking as evidenced by the results of the t-test analysis where the sig 2 tailed value is $0.000 < 0.05$ so H_0 is rejected and H_a is accepted so that there is a difference in how to think creatively before and after being treated using a digital-based Higher Order Thinking Skills (HOTS) assessment instrument.

Keywords: *Development of Higher Order Thinking Skills (HOTS) Assessment Instrument, Digital, Creative Thinking*

