

The Effectiveness of An Artificial Intelligence (AI) Applications on Fluency Performance Among Tenth Grade EFL Students.

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- **Abstract:** This study aimed at investigating the extent the effectiveness of an artificial intelligence (AI) applications on fluency performance among tenth grade EFL students. The study tried to answer the following questions: 1: Are there statistically significant differences in the Jordanian EFL students' fluency performance at ($\alpha = 0.05$) due to the use of Duolingo application as compared to the conventional method of teaching? 2: What are students' perceptions towards using the AI applications? The participants of the study consisted of 32 tenth grade students from Rasm Al hisan School at Al-Mafraq, Region during the second semester of the scholastic year 2021/2022. The participants of the study were of two groups: Group one consisted of (16) students and group two consisted of (16) students. The pretest and post-test were of two parts; a speaking and listening tests. The results of the study indicated that the experimental group performed better than the control group in the fluency aspect due to the new method of teaching that is the effectiveness of an artificial intelligence (AI) applications on fluency performance among tenth grade EFL students. The results of the study showed that the experimental group was more motivated rather than the control group. Accordingly, a set of recommendations were provided at the end of this study.
- **Keywords:** artificial intelligence, experimental group, EFL students.