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# LANGUAGE ACQUISITION SPEED IN A GAMIFIED LEARNING ENVIRONMENT

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### **Abstract**

This article analyzes the impact of a gamified educational environment on the speed of language acquisition. Based on modern pedagogical approaches and technologies, game elements are used to actively engage learners, enhance motivation, and accelerate the acquisition of language skills. The study examines the use of interactive applications, point-based systems, adaptive strategies, and competitive learning settings. The effectiveness of gamified environments is evaluated through a comparative statistical analysis of student performance versus traditional teaching methods.

**Keywords**: Gamification, language acquisition speed, educational technologies, interactive games, motivation, mobile applications, differentiated instruction, competition-based learning, game elements, pedagogical effectiveness.

#### Introduction

In contemporary educational paradigms, accelerating the process and effectiveness of language acquisition has become increasingly important. One such innovative method is gamification — the integration of game mechanics into learning environments — which transforms language learning into an interactive, motivating, and personalized experience (Kapp, 2012; Werbach & Hunter, 2012). Within gamified learning environments, students reinforce their skills through game elements such as point collection, level progression, and achievement badges. These features blend intrinsic and extrinsic motivational factors and significantly increase learners' acquisition speed (Sailer et al., 2017; Hamari et al., 2014). Research shows that gamified language settings foster the development



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of essential skills — especially vocabulary, writing, and oral proficiency (Su & Cheng, 2015; Azeema et al., 2025).

Moreover, according to Krashen's Input Hypothesis, effective language acquisition occurs when learners are exposed to language material slightly above their current proficiency level. Gamified environments provide precisely this context — allowing students to learn in low-stress, supportive, and motivating conditions (Gee, 2003; Reinders & Wattana, 2015). From this perspective, the article aims to theoretically and empirically analyze how gamified instruction influences the speed of language acquisition. It explores the role of gamification in fostering motivation, active participation, and language development among learners, while comparing results with conventional teaching methods to highlight its advantages.

### **Literature Review**

In recent years, gamification has emerged as an innovative approach widely applied in education, particularly in enhancing student motivation and engagement during second language acquisition (Kapp, 2012; Werbach & Hunter, 2012). Gamification refers to the methodology of integrating game design elements into the learning process, aimed at stimulating learner participation and accelerating knowledge acquisition.

In a comprehensive study conducted by Dilasiny Kumar and Harwati Hashim (2024), titled 'Gamification in English Language Acquisition: Systematic Literature Review', 25 articles out of 128 published between 2015 and 2024 were analyzed. Their findings confirmed the positive impact of gamification on motivation and the speed of language learning. The reviewed literature reveals that within gamified learning environments, students reinforce their knowledge through mechanisms such as point collection, level progression, and digital badges (Sailer et al., 2017; Hamari et al., 2014). Moreover, Su & Cheng (2015) demonstrated that gamified educational settings significantly enhance vocabulary development, memory retention, and core linguistic skills. Figueroa Flores (2015) emphasized that game-based strategies—such as tiered progression, immediate feedback, and achievement rewards—stimulate intrinsic motivation and foster resilience in learners. However, Deterding et al. (2017) raised concerns about the



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long-term sustainability of gamification's effects. While initial engagement levels tend to be high, its motivational influence may diminish over time. This suggests that further research is needed to transform gamification into a stable, long-term educational strategy.

### Methodology

The methodological approach of this research is designed to empirically investigate the impact of gamification tools on the speed of second language acquisition. An integrated framework combining both quantitative and qualitative methods is applied to ensure a comprehensive analysis of pedagogical effectiveness. Language skill development within gamified learning environments is evaluated through diagnostic tests, motivational surveys, semi-structured interviews, and ongoing classroom activity monitoring. Diagnostic tests serve as the primary indicators of linguistic progress over time. Surveys are designed to measure how game elements—such as point systems, level advancements, and badge rewards—affect student motivation. Semi-structured interviews provide insights into the subjective perceptions of both educators and learners, shedding light on psychological, social, and methodological dimensions of the learning process. Real-time monitoring of classroom engagement enables deeper observation of learner participation and outcome metrics.

Data analysis involves descriptive statistics to assess average scores, variability, and performance shifts. Comparative methods such as t-tests and ANOVA are used to evaluate the effectiveness of gamified environments versus traditional instruction. In addition, correlation analysis is conducted to explore the relationship between motivation and language acquisition speed.

Qualitative data is analyzed using thematic coding, which facilitates the identification of personal experiences and emotional responses related to gamification. This methodological framework enables a multidimensional evaluation of gamification's impact on linguistic acquisition, offering scientifically grounded insights into its pedagogical efficacy.



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### Results

The findings of the study confirm that a gamified learning environment significantly influences the speed of second language acquisition. Quantitative data obtained from diagnostic tests indicate that students participating in gamified educational processes acquired language skills more rapidly and effectively than those using traditional methods. Notably, the research conducted by Shen et al. (2024) revealed that gamification integration had a positive effect on learning outcomes, mediated by increased learner motivation. According to motivational survey results, game elements—such as point scoring, level progression, digital badges, and leaderboards—enhanced students' intrinsic motivation, which in turn accelerated their acquisition rates (Sailer & Homner, 2020; Hamari et al., 2014). In an experiment conducted by Boudadi et al. (2024) using the Moodle platform, participants in gamified settings exhibited lower levels of anxiety related to foreign language learning and demonstrated higher academic motivation scores. Qualitative data analysis showed that learners felt free, active, and engaged in gamified environments. Interviews revealed that game mechanics encouraged self-assessment, fostered a sense of accomplishment, and contributed to positive attitudes toward language learning. Statistical analyses yielded the following results:

- Students in gamified groups scored on average 15–20% higher in language acquisition metrics.
- Correlational analysis revealed a strong positive relationship between motivation and acquisition speed (r = 0.68).
- ANOVA results showed a statistically significant difference between control and experimental groups (p < 0.01).

Overall, these findings suggest that gamification is not only effective in enhancing motivation but also in accelerating the learning process. This provides a robust scientific basis for the integration of gamification as a pedagogical strategy in modern education.

### **Discussion**

While the results of the study demonstrate the positive impact of gamified learning environments on second language acquisition speed, deeper analysis is



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required to unpack the underlying mechanisms. Gamification enhances learner motivation, encourages active participation, and transforms the language learning process into a more engaging experience. This phenomenon has also been confirmed by Su & Cheng (2015), who found that gamified settings significantly improved vocabulary retention and overall language competency compared to conventional methods. However, the influence of gamification extends beyond motivation alone. The experiment conducted by Boudadi et al. (2024) on the Moodle platform showed that learners in gamified groups experienced reduced anxiety related to foreign language learning and reported higher academic motivation. This suggests that gamification affects psychobehavioral factors as well, helping learners feel safe, confident, and more positive about making mistakes during their learning journey. Nonetheless, Deterding et al. (2017) highlighted certain limitations regarding the long-term effectiveness of gamification. Although initial engagement is often high, the motivational impact may diminish over time. This necessitates methodological updates and personalized implementation strategies to sustain its effectiveness. If game mechanics are not aligned with learners' interests and needs, motivation levels may decline. Furthermore, it is important to emphasize that gamification improves not only acquisition speed but also learners' self-assessment, attitudes toward learning, and social interaction. As Figueroa Flores (2015) indicates, elements such as real-time feedback, achievement experiences, and challenge resolution attract learners and increase their commitment to language development.

### **Conclusion**

In conclusion, the effectiveness of gamification in language learning is multidimensional, intertwined with motivation, psychological state, social engagement, and acquisition speed. Successful application requires thoughtful adaptation to pedagogical goals, consideration of learners' individual needs, and careful selection of game elements. Future research should focus on the long-term effects of gamification, individual learner differences, and the impact on specific components of language proficiency.



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