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GAMIFICATION STRATEGY TO MOTIVATE WRITING SKILLS

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Descripción del Trabajo:

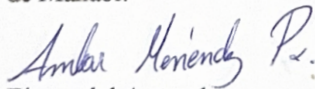
Este estudio investiga el impacto de la gamificación en la mejora de las habilidades de escritura y la motivación entre los niños en un Centro de Desarrollo Comunitario (CDC), particularmente en el contexto de la educación de inglés como lengua extranjera. La investigación destaca los desafíos comunes que enfrentan los estudiantes, como las actitudes negativas hacia la escritura y las dificultades para articular pensamientos, a menudo arraigadas en experiencias educativas pasadas. El estudio tiene como objetivo abordar estos desafíos mediante la implementación de actividades de aprendizaje gamificadas, demostrando que tales enfoques mejoran la competencia escrita y aumentan significativamente la motivación y el compromiso de los estudiantes. Los hallazgos subrayan la importancia de adaptar las estrategias de gamificación para satisfacer las necesidades únicas de las diversas poblaciones de estudiantes, lo que en última instancia contribuye a una educación de escritura más efectiva.

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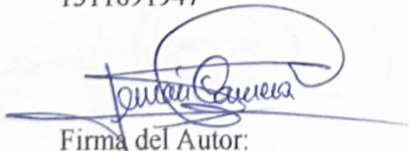
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La presente investigación ha sido desarrollada en apego al cumplimiento de los requisitos académicos exigidos por el Reglamento de Régimen Académico y en concordancia con los lineamientos internos de la opción de titulación en mención, reuniendo y cumpliendo con los méritos académicos, científicos y formales, y la originalidad del mismo, requisitos suficientes para ser sometida a la evaluación del tribunal de titulación que designe la autoridad competente.


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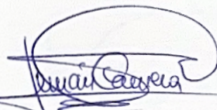
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Manta, Viernes, 13 de diciembre de 2024.

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Gamification Strategy to Motivate Writing Skills¹

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Abstract

This study investigates the impact of gamification on enhancing writing skills and motivation among children in a Community Development Center (CDC), particularly in the context of English as a Foreign Language (EFL) education. As traditional teaching methodologies evolve with technological advancements, gamification has emerged as a promising strategy incorporating game design elements to foster interactive and engaging learning environments. The research highlights common challenges students face, such as negative attitudes towards writing and difficulties articulating thoughts, often rooted in past educational experiences. The study aims to address these challenges by implementing gamified learning activities, demonstrating that such approaches improve writing proficiency and significantly increase student motivation and engagement. The findings underscore the importance of tailoring gamification strategies to meet the unique needs of diverse student populations, ultimately contributing to more effective writing education. This work fills a critical gap in the literature by providing insights into practical instructional strategies that leverage gamification to enhance writing skills among EFL learners.

Keywords: Gamification; Writing Skills; Student Motivation; English as a Foreign Language; Educational Technology; Interactive Learning.

Resumen

Este estudio investiga el impacto de la gamificación en la mejora de las habilidades de escritura y la motivación entre los niños en un Centro de Desarrollo Comunitario (CDC), particularmente en el contexto de la educación de inglés como lengua extranjera (EFL). A medida que las metodologías de enseñanza tradicionales evolucionan con los avances tecnológicos, la gamificación ha surgido como una estrategia prometedora que incorpora elementos de diseño de juegos para fomentar entornos de aprendizaje interactivos y atractivos. La investigación destaca los desafíos comunes que enfrentan los estudiantes, como las actitudes negativas hacia la escritura y las dificultades para articular pensamientos, a menudo arraigadas en experiencias educativas pasadas. El estudio tiene como objetivo abordar estos desafíos mediante la implementación de actividades de aprendizaje gamificadas, demostrando que tales enfoques mejoran la competencia escrita y aumentan significativamente la motivación y el compromiso de los estudiantes. Los hallazgos subrayan la importancia de adaptar las estrategias de gamificación para satisfacer las necesidades únicas de las diversas poblaciones de estudiantes, lo que en última instancia contribuye a una educación de escritura más efectiva. Este trabajo llena un vacío crítico en la literatura al proporcionar información sobre estrategias

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de instrucción prácticas que aprovechan la gamificación para mejorar las habilidades de escritura entre los estudiantes de EFL.

Palabras clave: Gamificación, Habilidades de escritura; Motivación de los estudiantes; Inglés como lengua extranjera; Tecnología educativa; Aprendizaje interactivo.

Introduction

In recent years, technology integration in education has transformed traditional teaching methodologies, leading to innovative approaches that enhance student engagement and learning outcomes. Among these approaches, gamification has emerged as a prominent strategy, leveraging game design elements to create more interactive and motivating learning environments. Research has shown that gamification can significantly increase student motivation and participation, particularly in subjects that often find challenging, such as English writing skills. (Hamari, Koivisto, & Sarsa , 2014)

Despite the growing body of literature on gamification, a notable gap exists in understanding its specific impact on writing skills, especially in English as a Foreign Language (EFL) education. While previous studies have explored the motivational aspects of gamification in various educational settings, few have focused on how these strategies can be effectively tailored to improve writing proficiency among EFL learners. This lack of targeted research highlights the need for a deeper exploration of gamification's role in addressing common writing challenges faced by students, such as negative attitudes toward writing and difficulties in articulating their thoughts.

To address this gap, the present study investigates the effects of gamification on students' writing skills and motivation. Using a mixed-methods approach, we assessed the efficacy of gamified learning activities in enhancing writing proficiency and fostering a positive attitude towards writing among EFL learners. This research contributes to the existing literature on gamification and writing. It provides practical insights for educators seeking to implement effective instructional strategies that engage students and improve their writing abilities.

Gamification is a strategy that applies game elements, such as points, badges, and challenges, to non-game settings to boost engagement and motivation. Integrating these game-like features makes tasks more interactive and enjoyable, encouraging users to participate actively. This approach is utilized across diverse sectors, such as education, marketing, healthcare, and employee training, to influence behaviors, enhance learning outcomes, and improve user experiences.

Kapp (2012) introduces, defines, and describes the concept of gamification and then dissects several examples of games to determine the elements that provide the most positive results for the players. He explains why these elements are critical to learning success. His book "The Gamification of Learning and Instruction" is based on solid research and includes peer-reviewed results from dozens of studies that offer insights into why game-based thinking.

Studies have shown that gamification can be an effective technique for increasing learner engagement in language classes. For example, research by Cahyani (2016) demonstrated the utility of gamification in enhancing learner engagement in language classes, while Shatz (2015) highlighted how gamification can promote risk-taking in language learning. Lin (2014) also found that gamification can increase student participation rates in foreign language classrooms.

Gamification is not equal to games. A game is structured play, usually for enjoyment. Gamification is a strategy for influencing and motivating people's behavior. The use of game design elements in non-game contexts. It means the implementation and use of game design

(Kapp, 2012). This technique is widely used across various sectors, including education, where it serves as a method to make learning more interactive and enjoyable, thereby encouraging active participation. By leveraging psychological motivators such as competition, achievement, and autonomy, gamification fosters a dynamic learning environment conducive to student engagement. According to Zichermann and Cunningham (2011), gamification transforms real-life tasks into game-like activities, tapping into students' intrinsic motivation and influencing behaviors in positive ways.

The integration of gamification into educational practices has garnered considerable attention in recent years, particularly regarding its potential to enhance student motivation and improve writing skills. This literature review synthesizes the contributions of various authors who have explored the intersection of gamification, motivation, and writing education, highlighting their theories and the specific niches they represent.

The literature surrounding gamification as a strategy to enhance student motivation, particularly in the context of writing skills, reveals a growing body of research highlighting its efficacy and potential benefits. In 2016, Molumby examined the fundamental aspects of gamified learning, emphasizing that clear instructions and well-defined purposes significantly boost student engagement and motivation within educational settings (J. Molumby, 2016). His findings suggest that the integration of gamification can effectively support the development of complex problem-solving competencies, thereby addressing the prevalent issues of student disengagement in contemporary classrooms. The study identifies essential design principles, such as visual status, social engagement, and rapid feedback, which are crucial for fostering an engaging learning environment.

Greijdanus (2015) investigates the motivational impact of gamification within the context of teaching English literature. His study emphasizes that incorporating game elements into literature education makes the learning process more engaging and fosters a deeper connection with the material. Using challenges, rewards, and competition, Greijdanus demonstrates how gamification can transform traditional literature classes into dynamic learning environments that stimulate student interest and participation.

Similarly, Matsumoto (2016) presents gamification as a strategic approach to enhance motivation in educational settings. His research underscores the effectiveness of game-based methods in engaging students, suggesting that incorporating game mechanics can increase participation and enthusiasm for learning. Matsumoto's findings align with the broader educational psychology niche, where understanding the psychological factors that drive student engagement is crucial for developing effective teaching strategies.

Ramos (2020) explores students' writing challenges, particularly in online learning environments. Ramos identifies common writing problems and negative attitudes toward writing among freshman university students. This exploration highlights the need for innovative approaches to writing education, suggesting that gamification could serve as a viable solution to enhance student motivation and improve writing skills. By creating a more interactive and enjoyable writing experience, gamification can help mitigate unproductive writing behaviors influenced by past educational experiences.

In the realm of English as a Foreign Language (EFL), Maghawry (2021) specifically addresses the application of gamification to enhance writing skills among secondary-stage students. Maghawry's research demonstrates that gamified learning activities improve writing proficiency and increase students' motivation to engage with writing tasks. This study contributes to understanding how gamification can be tailored to meet the needs of EFL

elements and techniques. Gamification applies game dynamism and systems to real-life problem-solving. (Ziehermann & Cunningham, 2011)

According to Greijdanus, W. (2015), gamification enhances motivation in teaching English literature by incorporating game elements into the learning process, making it more engaging and enjoyable for students. Gamification taps into intrinsic motivators like autonomy, mastery, and purpose by introducing elements such as challenges, rewards, competition, and a sense of progression.

Writing is one of the four fundamental language macro-skills every individual must learn. It results from the three other skills, such as reading, listening, and speaking, so it cannot be understood in isolation. Regardless of their grade level, students are taught the rudiments of writing for various purposes.

The challenge of fostering motivation for writing is intricate and demanding due to the inherent intricacy of the writing process. Writing is not a simple task; it is a dynamic and problem-solving endeavor that requires constant monitoring of progress toward task objectives. Writers must handle multiple goals, address various constraints, and transition between diverse perspectives, such as critical thinking, rhetorical approaches, and writing conventions. This complexity can lead to frustrations and hurdles for writers, highlighting the crucial need to establish and maintain motivation throughout the writing process. Additionally, students may hold negative attitudes towards writing and demonstrate unproductive writing behaviors influenced by past educational experiences. (Bruning & Horn, 2000)

Motivation is critical in developing writing skills, especially in learning English as a Foreign Language (EFL). Motivated students are more likely to engage actively in writing tasks, persist in facing challenges, and strive to improve their writing abilities. In the EFL classroom, motivation toward writing skills can be influenced by intrinsic factors, such as personal interest and satisfaction derived from writing, and extrinsic factors, such as grades or rewards.

This research aims to answer two questions. The first one is: Does gamification help to motivate learners to write? This question explores the relationship between gamified learning activities and student motivation in writing tasks. Gamification incorporates elements such as challenges, rewards, and competition, which are designed to engage students and enhance their intrinsic motivation. By examining motivation levels before and after the implementation of gamified activities, this research tries to determine whether these strategies significantly influence students' willingness to participate in writing exercises. Understanding the motivational impact of gamification is crucial, as it can inform educators about effective methods to foster a more engaging and participatory learning environment.

The second question is: How effective is a gamification strategy in developing EFL writing skills and increasing motivation? This question guides us in assessing the specific impacts of gamified learning on students' writing proficiency. The study will evaluate improvements in overall writing quality, vocabulary usage, and creativity by utilizing quantitative measures, such as pre-and post-test scores, and qualitative analyses of writing samples. The findings from this research will provide valuable insights into how gamification can be strategically employed to enhance writing skills among EFL learners, ultimately contributing to a more effective instructional approach in language education.

Literature Review

Gamification is a strategic approach that applies game design elements such as points, badges, challenges, and levels to non-game contexts, aiming to boost motivation and engagement

learners, providing insights into practical instructional strategies that promote language acquisition through engaging methodologies.

Bruning and Horn's foundational work on developing motivation to write provides a psychological framework for understanding the factors that influence writing skills. Their research emphasizes the importance of both intrinsic and extrinsic motivators in fostering a positive attitude toward writing. Educators can tap into these motivational factors by integrating gamification into writing instruction, creating an environment where students feel empowered to take risks and improve their writing abilities.

These articles contribute to a comprehensive understanding of how gamification can strategically motivate students to develop their writing skills, highlighting the interplay between engagement, motivation, and practical learning experiences.

Gamification, the integration of game elements into non-game contexts, has been a growing area of interest within educational research. Its potential to enhance student motivation and improve writing skills has sparked numerous studies exploring this intersection. This literature review aims to synthesize the contributions of various scholars who examined gamification's role in motivating students, particularly in the realm of writing education, while emphasizing theoretical frameworks and empirical evidence. The historical development of gamification in education has illustrated both its strengths and limitations, particularly regarding its efficacy in improving learning outcomes.

Theoretical Foundations of Gamification in Education

The theoretical underpinnings of gamification are deeply rooted in motivational psychology, with two prominent theories—Self-Determination Theory (SDT) and Expectancy-Value Theory—frequently cited. Deci and Ryan (2000) provided a robust foundation with their Self-Determination Theory, which emphasized autonomy, competence, and relatedness as critical factors in fostering intrinsic motivation. They argued that creating environments where students felt a sense of control over their learning, perceived themselves as competent, and experienced a connection to their peers would significantly enhance motivation. Gamification, including choice-based tasks, instant feedback mechanisms, and collaborative challenges, aligned closely with these principles, offering students autonomy, competence, and relatedness opportunities.

Expectancy-value theory, as developed by Eccles et al. (1993), also played a significant role in the discourse on gamification and education. This theory posited that students' motivation was shaped by their beliefs about their ability to succeed (expectancy) and their value on the task (value). By introducing game elements such as rewards, competition, and visual progress tracking, gamification could boost students' perceived ability to succeed and increase the value of learning tasks. According to Eccles and colleagues, students were more likely to engage in tasks they found both achievable and valuable, making gamification an effective tool in addressing these motivational drivers.

Empirical Studies on Gamification and Writing Skills

A significant body of empirical research has demonstrated that gamification enhances motivation and writing skills in educational settings. Molumby (2016), for example, investigated the application of gamified learning strategies in classrooms and found that providing clear instructions and setting well-defined goals significantly boosted student engagement. Molumby highlighted how rapid feedback and visual status markers could enhance the learning experience, particularly for students struggling with complex writing tasks. His work provided early evidence of how gamification could transform disengaged learners into active participants in their education.

Greijdanus (2015) also made a significant contribution by examining how gamification could be integrated into the teaching of English literature. His research focused on the impact of game elements like rewards, competition, and challenges within literature classes, revealing that these elements fostered deeper engagement and created dynamic learning environments. Students were more likely to participate actively when they saw tangible rewards for their efforts, and the competitive nature of some gamified activities further motivated them to excel. This study indicated that gamification could bridge the gap between traditional, text-heavy subjects and the digital-age learner by providing an engaging framework for learning.

Matsumoto (2016) reinforced these findings, presenting gamification as a strategic method for enhancing student motivation across various educational settings. His research emphasized how game-based techniques could increase enthusiasm for learning, particularly in subjects where student engagement traditionally waned, such as writing. By integrating game mechanics, such as point systems and leaderboards, into writing education, Matsumoto demonstrated that students were not only more motivated but also developed better writing habits. His work aligned with broader trends in educational psychology, underscoring the importance of understanding psychological factors, such as reward-based learning, in developing effective teaching strategies.

Ramos (2020) provided a more contemporary analysis of the challenges students faced in online learning environments, particularly concerning writing skills. In his study of freshman university students, Ramos identified common writing problems, including a lack of motivation and negative attitudes toward writing tasks. He argued that these issues were exacerbated by students' past educational experiences, which often emphasized rote learning and rigid assessments. Gamification, Ramos suggested, could offer a more interactive and enjoyable approach to writing education, helping students overcome these negative attitudes by making the writing process more engaging and rewarding.

In English as a Foreign Language (EFL), Maghawry (2021) explored the application of gamification to enhance writing skills among secondary-stage students. His study found that gamified learning activities improved writing proficiency and increased students' willingness to engage with writing tasks. Maghawry's research was particularly relevant in the EFL context, as it demonstrated how gamification could be adapted to meet the unique needs of language learners. His findings provided insights into practical instructional strategies that combined language acquisition with game-based learning, thus contributing to the ongoing conversation about making writing education more accessible and valuable for diverse student populations.

Challenges and Criticisms of Gamification

While most studies have praised the potential benefits of gamification, some criticisms and challenges have emerged. One key concern is the risk that gamification may prioritize engagement at the expense of deeper learning. Bruning and Horn (2000) provided a psychological framework for understanding motivation in writing, emphasizing the importance of intrinsic over extrinsic motivators. They argued that while gamification could offer extrinsic rewards (such as points and badges), there was a danger that students might become too focused on these rewards, neglecting the development of deeper writing skills. Their research suggested that educators should carefully design gamified tasks to ensure that they not only engage students but also lead to meaningful learning outcomes.

Additionally, accessibility remains a significant concern in the application of gamification. Molumby (2016) pointed out that while gamification could increase engagement for many students, it could also exclude those with different learning styles or access to technology. In

particular, students from disadvantaged backgrounds may struggle to engage with gamified learning environments if they lack the necessary resources. Ensuring that gamification strategies are inclusive and adaptable to the needs of all learners is critical to its success as a pedagogical tool.

Future Directions in Gamification Research

The literature reviewed suggests several avenues for future research. First, the long-term effects of gamification on student motivation and writing skills need to be investigated. While many studies have demonstrated short-term gains, it remains to be seen whether these benefits persist over time or whether students' engagement wanes once the novelty of gamification wears off. Developing adaptive gamification systems that can tailor the level of challenge and feedback to individual students' needs may enhance their effectiveness in the long term.

Secondly, more research is needed to explore the impact of gamification in diverse educational contexts. Most existing studies have been conducted in Western educational systems, but there is growing interest in how gamification may function in different cultural settings. Understanding how students from various cultural backgrounds respond to gamified learning environments could provide valuable insights into its universal applicability and help educators design more culturally responsive gamification strategies.

In conclusion, integrating gamification into educational practices has proven to be a promising strategy for enhancing student motivation and writing skills. Theories such as Self-Determination Theory and Expectancy-Value Theory provide a strong foundation for understanding how gamification can influence students' learning motivation. Empirical research, particularly the works of Molumby, Greijdanus, Matsumoto, Ramos, and Maghawry, has consistently demonstrated the positive impact of gamification on student engagement and learning outcomes. However, it is essential to address the potential limitations of gamification, particularly regarding its accessibility and the need for deeper learning. Future research should continue to explore gamification's long-term and cultural implications, ensuring its effective and equitable implementation in educational settings.

Methodology

This study uses a mixed-methods approach combining theoretical and empirical research to investigate how gamification affects children's writing skills. The empirical component comprises experimental studies and qualitative evaluations, while the theoretical component includes a thorough analysis of the body of knowledge on gamification and educational psychology. By integrating these methodologies, the study seeks to provide a comprehensive and intricate understanding of how gamification affects children's writing proficiency and motivation. Mixed-methods approaches are helpful because they enable a thorough analysis of complicated phenomena, especially in educational research (Johnson & Onwuegbuzie, 2004).

Research Design

The research compares the writing abilities and motivation of kids who participate in gamified learning activities to kids who learn through traditional methods. The main goal is to assess the effects of gamification on kids' writing skills and engagement. Comparative studies in education shed important light on the relative efficacy of various teaching approaches. (Campbell & Stanley, 1963) (Cohen, Manion, & Morrison, 2018).

Sampling Method

A stratified random sampling methodology was utilized to guarantee a representative and varied sample. This experimental investigation occurred in a Community Development Center (CDC) in Manta – Ecuador, to ensure inclusivity and diversity. Participants were chosen based

on crucial demographic factors like age, gender, and socioeconomic status. It is commonly known that stratified sampling can improve the generalizability of research findings (Teddlie & Yu, 2007).

Techniques

- **Checklist:** An adapted version of the Pre- and Post-Motivation Scale by ARCS Keller (Keller, 1987) was used to measure motivation. This scale assesses four dimensions: Attention, Relevance, Confidence, and Satisfaction (Keller, 1987). The modified method entails using the scale both before and after the educational intervention to evaluate changes in motivation. A set of statements is used to rate each of the four dimensions on a Likert scale, which indicates how much agreement or disagreement there is in each statement. This quantitative method makes a thorough examination of how teaching tactics affect different facets of student motivation possible. By adjusting the scale, the target age group and cultural context are guaranteed to find it appropriate. The purpose of the data collection is to monitor changes in motivation both before (pre-test) and after (post-test) the gamified interventions.

Table 1. Checklist Criteria

Attention	Relevance	Confidence	Satisfaction
Curiosity	Personal interest	Ability	Enjoyment
Participation	Understanding	Progress	Expression
Focus	Application	Feedback	Rewards
Reactions	Utility	Objectives	Interest in future lessons
Comments	Cultural Relevance	Risk taking	Materials
Concentration	-	Autonomy	Positive attitude

- **Writing Activity:** At the beginning of the activity, students are given a template to fill out, including fields for their name, age, favorite hobbies, favorite food, and a fun fact about themselves. Despite the straightforward nature of the task, many students find it difficult to start. They may feel self-conscious or unsure about how to express their thoughts clearly. This initial phase often reveals the gap between their ideas and their ability to articulate them in writing.

Table 2. Criteria to evaluate

Criteria	Aspects to evaluate
Use of language	Excellent
Spelling	Good
Creativity	Satisfactory

Word order	Needs improvement
Clarity	-

Data Collection Procedure

The data collection took place in two main phases:

- **Pre-Test:** Participants completed the motivation observation sheet (pre-test) to establish baseline motivation levels. They also participated in a traditional writing activity to provide initial data on their writing skills (Patton, 2014)
- **Post-Test:** Following a series of gamified writing activities designed to enhance engagement and writing proficiency, participants again completed the observation sheet (post-test) and participated in a final gamified writing task. This allows for comparing motivation and writing skills before and after the intervention. (Creswell & Plano Clark, 2017)

Data Analysis

Quantitative Data:

Statistical analysis was done on the observation sheet's -pre-and post-test results. Evaluating an intervention's efficacy in educational research is especially helpful for comparing pre- and post-intervention scores for the same participant group. While inferential statistics are a fundamental component of scientific research, offering the means to draw conclusions from a sample to a population, it is also a highly effective tool in educational research for investigating the effects of various instructional strategies or interventions across multiple groups. Testing hypotheses and drawing conclusions that go beyond the immediate data at hand require statistical methodology.

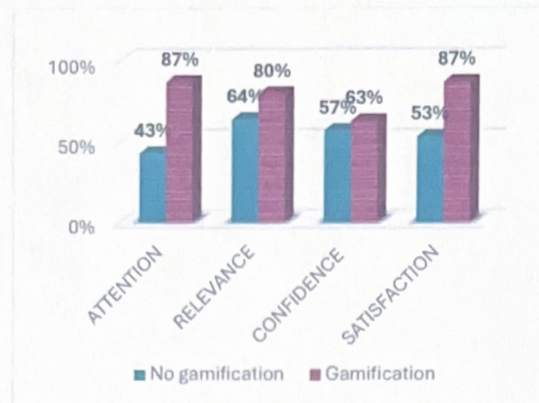
Analysis of Qualitative Data

Writing samples from traditional and gamified tasks were observed through a thematic qualitative data analysis. Using a methodical coding process, the data is analyzed to identify recurrent themes, patterns, and improvements in writing skills. The study focused on three main areas: overall writing quality, vocabulary usage, and creativity. Thematic analysis ensures a thorough understanding of the data by offering an organized method for locating and analyzing important qualitative insights (Barry, Merkebu, & Varpio, 2022).

Using these methodological approaches, it is possible to thoroughly investigate how gamification can improve children's motivation and writing abilities. When taken as a whole, these results help guide the adoption of gamified learning strategies in educational settings by providing educators and policymakers with information about the effectiveness of these techniques (Hamari, Koivisto, & Sarsa, 2014).

Results

Figure 1. Checklist results



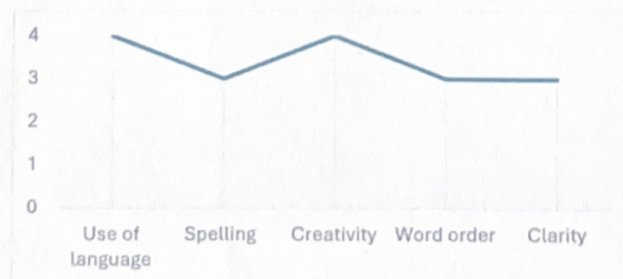
The graph provided illustrates the comparative results, highlighting gamification's significant impact on various educational metrics. The four key areas measured are attention, relevance, confidence, and satisfaction, with each category comparing the outcomes of traditional methods (no gamification) and gamified approaches. The differences observed in these areas underscore the benefits of incorporating gamification into educational practices.

In the attention category, the two approaches starkly contrast. The traditional method garnered 43% of the attention, whereas the gamified approach achieved a remarkable 87%. The relevance of the content, as perceived by the students, also improved significantly with gamification. The graph indicates that relevance rose from 64% with traditional methods to 80% with gamified methods.

Confidence is another critical area where gamification has a positive impact. The graph shows an increase from 57% confidence in traditional settings to 63% in gamified environments. While this increase is less dramatic than in the other categories, it still indicates that gamification can bolster students' belief in their abilities. The elements of challenge and achievement inherent in gamified learning likely help students build and demonstrate their skills, thereby increasing their confidence.

Satisfaction levels exhibit one of the most significant disparities between the two approaches, mirroring the results seen in attention. Satisfaction with traditional methods stands at 53%, while satisfaction with gamified methods soars to 87%. This suggests that students enjoy gamified learning more and feel more content with their educational experiences. Higher satisfaction levels can lead to greater motivation and a more positive attitude toward general learning.

Figure 2. Rubric results of writing



The rubric for writing aspects assesses various elements of writing, including language use, spelling, creativity, word order, and clarity. Each component is rated on a scale from 1 to 4, with 4 being the highest point achieved in this evaluation.

The rubric for writing aspects evaluates the use of language, spelling, creativity, word order, and clarity. Each is rated on a scale from 1 to 4, with 4 being the highest score achieved. Language and creativity received the highest score of 4, indicating strong command and originality. Spelling, word order, and clarity are scored 3, suggesting accurate spelling with occasional errors, generally correct sentence structure with some room for improvement, and overall understandable writing that could benefit from a more precise expression.

Discussion

The findings from this study underscore the significant role that gamification can play in enhancing children's writing proficiency and motivation. By integrating game-like elements into the learning process, educators can create a more engaging and enjoyable environment for students, which is crucial for fostering a positive attitude towards writing. The methodologies employed in this research, including quantitative and qualitative analyses, provide a comprehensive understanding of how gamification influences student outcomes.

Integrating gamification into writing teaching also addresses students' diverse learning styles and preferences, making it a versatile approach in contemporary classrooms. According to Deterding et al. (2011), gamification leverages game design elements to enhance user engagement and motivation, which can be particularly beneficial in accommodating various learning modalities. For instance, visual learners may benefit from graphics and progress tracking, while kinesthetic learners may thrive in interactive tasks that involve movement or hands-on activities. By catering to these different learning styles, gamification promotes inclusivity and enhances the overall effectiveness of writing instruction. This adaptability is crucial in today's diverse educational landscape, where students come from varied backgrounds and possess unique strengths and challenges in their learning journeys.

Furthermore, the role of feedback in gamified learning environments cannot be overstated, as it significantly influences student motivation and performance. Hattie and Timperley (2007) highlight that effective feedback is one of the most powerful influences on learning and achievement. In gamified contexts, immediate feedback mechanisms—such as points, badges, and progress bars—provide students with real-time insights into their performance, allowing them to adjust their strategies and efforts accordingly. This instant feedback loop reinforces learning and fosters a growth mindset, encouraging students to view challenges as opportunities for improvement rather than obstacles. By integrating structured feedback within gamified writing tasks, educators can create a supportive environment that promotes continuous learning and development, ultimately leading to enhanced writing skills and greater student satisfaction.

The quantitative data collected through pre- and post-test observations reveal a marked improvement in students' motivation levels and writing skills following the implementation of gamified activities. This aligns with existing literature that emphasizes the effectiveness of gamification in educational settings. As noted, inferential statistics are a powerful tool in academic research, allowing the examination of the impact of various instructional strategies across diverse groups. The statistical analysis conducted in this study confirms that gamified interventions can lead to significant enhancements in both engagement and writing proficiency.

Qualitative data, analyzed through thematic analysis, further enriches our understanding of the areas in which students improved. The recurrent themes identified—overall writing quality, vocabulary usage, and creativity—highlight the multifaceted benefits of gamification. By providing structured templates and engaging tasks, students are encouraged to express their

thoughts more clearly and creatively, bridging the gap between their ideas and writing abilities. This is particularly important, as many students initially struggle with self-expression in writing, often feeling self-conscious or unsure of how to articulate their thoughts.

Moreover, the gamification strategy motivates students and fosters a sense of autonomy and risk-taking in their writing activities. Incorporating feedback, rewards, and cultural relevance into the gamified tasks enhances students' interest and participation, making the learning process more dynamic and interactive. As educators and policymakers consider the adoption of gamified learning strategies, the insights gained from this study can guide the development of effective instructional practices that cater to the diverse needs of learners.

Conclusion

Educators can integrate game-like elements such as challenges, rewards, and competition into the educational framework to tap into intrinsic motivators that foster a more engaging and interactive learning environment. The research demonstrates that gamification improves students' writing proficiency and cultivates a positive attitude toward writing, addressing many learners' common challenges and negative perceptions. By creating a supportive atmosphere that encourages risk-taking and creativity, gamification enhances skill development and promotes a lifelong love for learning.

The mixed-methods approach employed in this study, combining quantitative and qualitative analyses, provides a robust framework for understanding the impact of gamified interventions. The findings indicate significant improvements in motivation and writing skills, reinforcing that gamification can effectively bridge the gap between students' ideas and their ability to express them in writing. Furthermore, the thematic analysis of qualitative data reveals key areas of enhancement, including overall writing quality, vocabulary usage, and creativity, which are essential components of effective writing.

As educators and policymakers consider the implications of this research, adopting gamified learning strategies can lead to more dynamic and effective educational practices. By fostering an environment that encourages autonomy, creativity, and risk-taking, gamification can help students develop their writing skills and a lifelong passion for learning.

As this study demonstrates, gamified approaches students and provides them with the tools and strategies necessary to navigate the complexities of writing. Moving forward, it is essential for educators to continue exploring and refining gamification techniques, ensuring they are tailored to meet the diverse needs of learners. Additionally, ongoing research should focus on the long-term impacts of gamification on writing proficiency and student attitudes toward writing, as understanding these dynamics will be crucial for developing effective educational practices. By embracing gamification, educators can foster a more dynamic and inclusive learning environment that empowers students to become confident and proficient writers.

References.

- Barry, E. S., Merkebu, J., & Varpio, L. (2022). State-of-the-art literature review methodology: A six-step approach for knowledge synthesis. *Educational Researcher*, 51(1), 24-33.
- Bruning, R., & Horn, C. (2000). Developing motivation to write. *Educational Psychologist*, 25-37.
- Bruning, R., & Horn, C. (2000). Title of the Article:. *Educational Psychologist*, pp. 25-37.
- Cahyani, N. (2016). The influence of gamification on student engagement in language course. *Journal of Language and Linguistic Studies*, 45-56.

- Campbell, D. T., & Stanley, J. C. (1963). *Experimental and Quasi-Experimental Designs for Research*. Houghton Mifflin.
- Cohen, L., Manion, L., & Morrison, K. (2018). *Research Methods in Education*. . Routledge.
- Creswell, J. W., & Plano Clark, V. L. (2017). *Designing and Conducting Mixed Methods Research*. Sage Publications.
- Deci, E. L., & Ryan, R. M. (2000). The "what" and "why" of goal pursuits: Human needs and the self-determination of behavior. *Psychological inquiry*, 227-268.
- Deterding, S., Dixon, D., Khaled, R., & Nacke, L. (2011). From game design elements to gamefulness: Defining "gamification". (pp. 9-15). New York, USA: ACM. doi:10.1145/2181037.2181040
- Eccles, J. S. (1993). A guide to the development of expectancy-value theory. *In Handbook of Child Psychology*, 4, pp. 75-146. doi:10.1006/ceps.1999.1015
- Greijdanus, W. (2015). *Gamification and literature: A study of the motivational impact of gamification as a method of teaching English literature*.
- Hamari, J., Koivisto, J., & Sarsa, H. (2014). Does gamification work? -- A literature review of empirical studies on gamification. *2014 47th Hawaii International Conference on System Sciences*. IEEE. doi:10.1109/hicss.2014.377
- Hamari, J., Koivisto, J., & Sarsa, H. (2014). Does gamification work? A literature review of empirical studies on gamification. *Proceedings of the 47th Hawaii International Conference on System Sciences*.
- Hattie, J., & Timperley, H. (2007). The power of feedback. *Review of educational research*, 77, pp. 81-112. doi:https://doi.org/10.3102/003465430298487
- J. Molumby, M. (2016). *Effects of gamification on motivation and engagement in secondary curriculum*. Iowa: Graduate Research Papers.
- Johnson, R. B., & Onwuegbuzie, A. J. (2004). Mixed Methods Research: A Research Paradigm Whose Time Has Come. *Educational Researcher*, 14-26.
- Kapp, K. M. (2012). *The Gamification of learning and instruction: Game-based methods and strategies for training and education*. John Wiley & Sons.
- Keller, J. M. (1987). Development and use of the ARCS model of instructional design. *Journal of Instructional Development*, 10(3), 2-10.
- Lin, T.-J. (2014). The impact of gamification on student involvement in foreign language classes. *International Journal of Educational Technology in Higher Education*, 11, 1-12.
- Maghawry, S. A. (2021). A gamification program to enhance writing skills of EFL secondary stage students and their motivation towards learning these skills. *Journal of the Faculty of Education in Mansoura*, 65-88.
- Matsumoto, T. (2016). Motivation Strategy Using Gamification. *Creative Education*, 1480-1485.
- Patton, M. Q. (2014). *Qualitative Research & Evaluation Methods*. Sage Publications.
- Ramos, E. T. (2020). Common writing problems and writing attitudes among freshman university students in online learning environments: An exploratory study. *Journal of Translation and Language Studies*.

- Shatz, I. (2015). Gamification in language learning: Encouraging risk-taking among students. *Language Learning & Technology*, 1-15.
- Teddlie, C., & Yu, F. (2007). Mixed Methods Sampling: A Typology with Examples. *Journal of Mixed Methods Research*, 1(1), 77-100.
- Zichermann, G., & Cunningham, C. (2011). *Gamification by design: Implementing game mechanics in web and mobile apps*. Sebastopol, CA, Estados Unidos de América: O'Reilly Media.