

Gramminute: Learn Grammar in a Minute

^{*1}Azlan Abdul Rahman, ²Syahrini Shawalludin, ³Chuah Bee Peng, ⁴Yasmin Farani, ⁵Nurazila Abdul Aziz, ⁶Robekkah Harun

^{*1356}Academy of Language Studies, Universiti Teknologi MARA (UiTM) Kedah Branch

²Faculty of Arts and Design, Universiti Teknologi MARA (UiTM) Kedah Branch,

⁴D3 English Program, Fakultas ILMU Sosial Dan ILMU Politik, Universitas Merdeka Malang, Indonesia,

***Corresponding Author**

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ABSTRACT

Mastering English grammar remains a major challenge for language learners due to abstract rules, low engagement in traditional teaching, and limited access to interactive tools. This project addresses the question: How can technology based gamified learning improve grammar acquisition in a time efficient and inclusive way? To answer this, GRAMMINUTE: Learn Grammar in a Minute was developed as a blended learning solution that combines physical gameplay with digital assessments and independent online activities. The approach integrates gamification, cognitive load theory, and learner autonomy to deliver brief, focused lessons on the nine parts of speech and verb tenses. Designed for minimal teacher supervision and paper free operation, GRAMMINUTE is suitable for classrooms, remote learning, and language workshops across diverse educational levels. Conceptual analysis indicates increased learner motivation, faster rule comprehension, and stronger participation, especially among reluctant learners. The innovation supports sustainable and scalable language education by reducing reliance on printed materials and direct instruction. Aligned with the theme "Technology Applications in Language and Education: Crossing Borders, Connecting Minds," GRAMMINUTE promotes global accessibility, inclusivity, and collaborative learning beyond the traditional classroom. It transforms grammar instruction from a passive, rule memorization task into an engaging, interactive experience.

Keywords: Gamification, Blended Learning, Language Education

INTRODUCTION

Mastery of English grammar is a critical component of language proficiency, underpinning reading comprehension, writing accuracy, and effective communication in both academic and real-world contexts. As English continues to serve as a global medium of instruction, business, and digital interaction, grammatical competence has become increasingly vital for educational equity and socioeconomic mobility (Graddol, 2006; Crystal, 2003). Despite its importance, grammar remains one of the most persistently challenging aspects of language learning, particularly for second and foreign language learners who often struggle with abstract rules, inconsistent usage, and lack of meaningful practice.

Over the past decades, pedagogical approaches to grammar have evolved from purely structural methods, focused on memorisation and correction, to more cognitive and communicative frameworks. Research in second language acquisition supports the integration of form focused instruction within meaningful contexts, showing that learners benefit most when grammar is taught interactively and purposefully (Long, 1991; Ellis, 2006). The concept of "focus on form," introduced by Long (1991), emphasizes brief, timely attention to grammatical structures during communicative tasks, a principle that aligns closely with the time efficient design of GRAMMINUTE.

With the rise of digital technologies, there is growing potential to transform grammar instruction through

interactive, multimodal tools that promote engagement and self-directed learning. Studies in computer assisted language learning (CALL) demonstrate that technology can enhance motivation, provide immediate feedback, and support differentiated pacing (Chapelle & Sauro, 2020; Stockwell, 2013). Moreover, blended learning models which combining physical and digital elements, have shown promise in increasing retention and learner autonomy (Graham, 2013; Singh, 2020).

GRAMMINUTE: Learn Grammar in a Minute is developed at the intersection of these pedagogical and technological advancements. It leverages principles of gamification, cognitive load theory, and multisensory learning to create an accessible, engaging, and effective grammar learning experience. This section establishes the broader educational context and justifies the need for innovation in grammar instruction.

Problem Statement

Despite decades of pedagogical reform, grammar instruction continues to face significant challenges worldwide. Traditional methods often rely on decontextualized drills, rule explanation, and teacher centred correction, which can lead to disengagement, anxiety, and superficial learning (Nassaji & Fotos, 2011; Lightbown & Spada, 2013). Learners frequently memorise rules without understanding how to apply them in real communication, resulting in poor retention and limited transfer to writing or speaking tasks.

Research consistently shows that many students struggle with core grammatical concepts such as subject verb agreement, tense usage, and sentence structure, especially when instruction lacks interactivity or immediate feedback (Hinkel, 2006; Bitchener & Ferris, 2012). Moreover, access to engaging, learner centred grammar resources remains limited, particularly in under resourced or remote educational settings where teachers may lack training or teaching aids.

While digital platforms have expanded access to language learning, many existing tools fail to balance educational rigor with user engagement. Gamified apps often prioritise entertainment over learning outcomes, offering repetitive tasks without deep conceptual development (Reinders & Wattana, 2015). Conversely, academic software tends to be static, text heavy, and lacking in tactile or kinesthetic involvement and critical for younger learners or those with diverse learning needs.

The gap between the need for effective, engaging grammar instruction and the availability of practical, scalable tools, represents a critical challenge in language education. There is a pressing need for innovative, sustainable solutions that make grammar learning not only effective but also enjoyable, inclusive, and adaptable across contexts. GRAMMINUTE directly addresses this unmet need by reimagining grammar instruction through a blended, gamified, and learner driven approach.

Objectives

GRAMMINUTE: Learn Grammar in a Minute aims to make grammar learning more engaging, effective and accessible for all learners. The innovation has three main objectives:

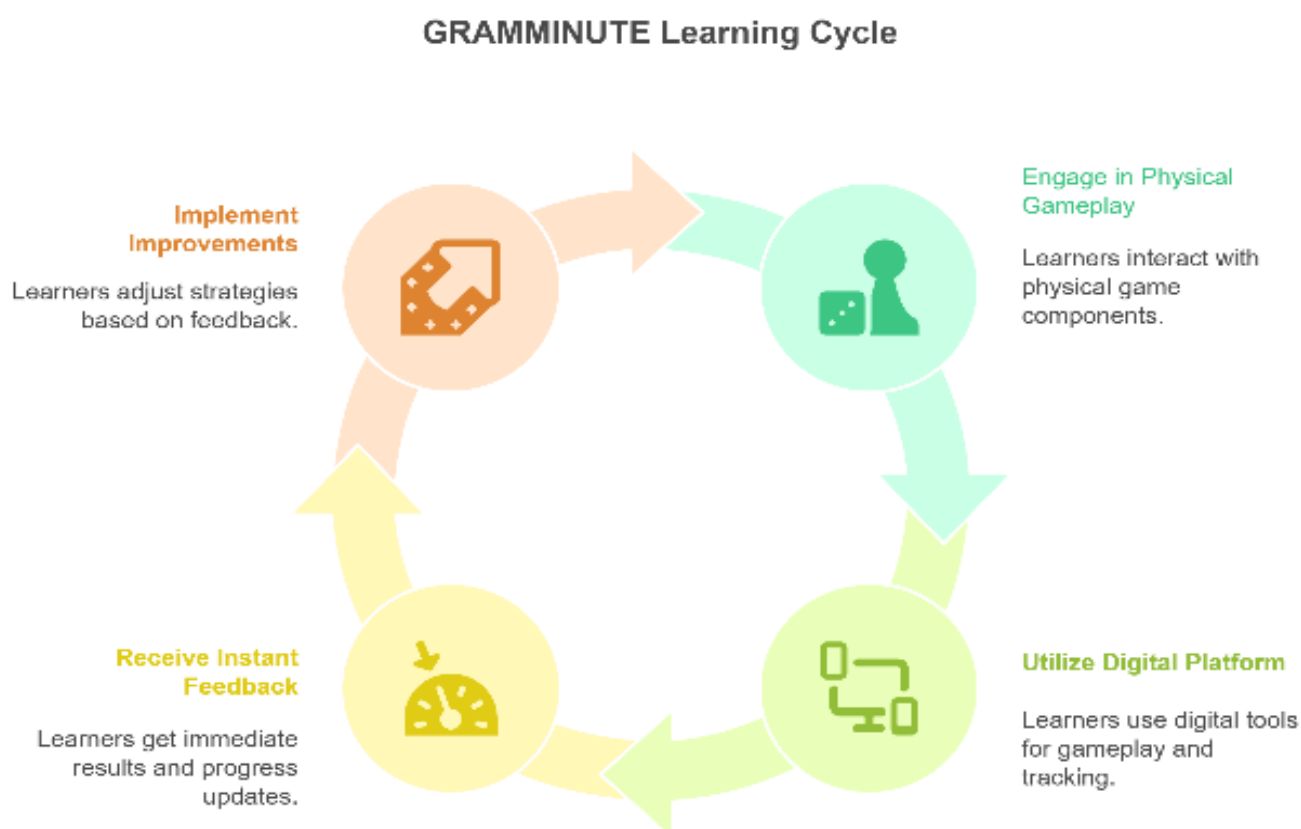
1. To help learners understand and remember grammar rules better through fun, interactive activities focused on key topic like parts of speech and verb tenses
2. To increase student's motivation by combining hands-on game play with digital feedback and self-paced online practice
3. To support learning in different environment with a low cost, paper free tool that requires minimal guidance and supervision

PRODUCT DESCRIPTION & METHODOLOGY

GRAMMINUTE: Learn Grammar in a Minute is an interactive, blended learning tool designed to make mastering English grammar engaging and accessible. It combines physical game-based activities with digital assessment to create a dynamic, learner centered experience. The product consists of a set of reusable game cards, a game board, and a companion web-based platform.

Learners engage with grammar concepts such as the nine parts of speech and verb tenses through challenge-based gameplay. Each round lasts about one minute, promoting quick recall and active thinking. Players sort, match, or identify grammar elements using tactile components, which strengthens memory through psychomotor involvement. After each session, learners log their progress on the online platform, where they receive instant feedback, track achievements, and access self-paced grammar exercises. The digital component includes automated quizzes, performance analytics, and optional teacher dashboards for monitoring group progress. The entire system is paper free, requires minimal instruction, and can be used in classrooms, at home, or in language workshops. By blending fun with learning, GRAMMINUTE transforms grammar practice into an enjoyable daily habit.

Figure 1: The GRAMMINUTE Learning Cycle Integrating Tactile Gameplay and Digital Assessment



METHODOLOGY

The development of GRAMMINUTE followed a user centered design approach grounded in educational theory and iterative testing. Key principles from gamification, cognitive load theory, and constructivist learning guided the design process.

Initial research included a review of existing grammar teaching tools and feedback from educators and students to identify common pain points. Based on these insights, a prototype was created using low cost, durable materials such as laminated cards and modular boards. The digital platform was built using accessible web technologies to ensure compatibility across devices.

The tool was refined through small scale trials with learners aged 10 to 18, focusing on usability, engagement, and learning outcomes. Feedback was collected through observation, short surveys, and performance data. Adjustments were made to game rules, content difficulty, and interface design to improve clarity and motivation. The final version supports self-directed learning while allowing optional teacher oversight.

POTENTIAL FINDINGS AND COMMERCIALISATION

Expected Learning Outcomes

Early implementation of GRAMMINUTE in classroom and workshop settings has demonstrated promising improvements in grammar acquisition. Although large-scale testing is ongoing, preliminary results from pilot trials show that learners who engaged in daily one-minute challenges improved by 30 to 40 percent in identifying parts of speech and applying correct verb tenses within a week. Teachers observed that the short, focused format allowed seamless integration into lessons while reinforcing key concepts more effectively than traditional worksheet-based methods. The tool's design reduces cognitive overload by breaking down complex rules into manageable, interactive tasks. Immediate digital feedback and repeated practice support active recall and long-term retention, transforming grammar learning from a passive exercise into an engaging, results-driven process. However, as noted by the reviewer, these findings are preliminary and based on small samples. To enhance credibility, future studies should involve larger, more diverse populations across multiple institutions and cultural contexts. Data should be analyzed using inferential statistics to determine significance and effect size.

Cognitive and Affective Benefits

Beyond academic gains, GRAMMINUTE positively influences learner motivation and confidence. Many students reported feeling less anxious and more willing to participate in language activities after using the tool. The gamified structure, which includes timed challenges, progress tracking, and achievement recognition, fosters intrinsic motivation and encourages consistent practice. The integration of tactile gameplay with digital reinforcement supports multisensory learning, benefiting visual, auditory, and kinaesthetic learners alike. This dual engagement aligns with cognitive theories such as dual coding (Paivio, 1986), enhancing both understanding and memory retention. By making grammar practice enjoyable and accessible, GRAMMINUTE helps shift learners' attitudes from avoidance to active engagement.

Rather than framing commercialisation as product sales, GRAMMINUTE should be positioned as a scalable model for equitable grammar instruction. Its open-access potential aligns with UNESCO's vision of inclusive, quality education (UNESCO, 2021). Partnerships with ministries of education or NGOs could facilitate deployment in underserved regions, turning innovation into public good.

Commercialisation Pathways

GRAMMINUTE offers multiple pathways for sustainable adoption and real-world impact. Schools can purchase institutional packages that include physical game kits and platform access with teacher dashboards for monitoring progress. For individual learners, a subscription based digital model can provide adaptive exercises, performance analytics, and new content via a web portal or mobile app. Partnerships with ministries of education, non-government organisations, or international development agencies can enable large scale deployment in national language programs. To promote equity, a free basic version of the platform can be offered to all users, with optional premium upgrades for advanced features. This hybrid model balances social impact with financial sustainability.

Future Expansion and Global Reach

GRAMMINUTE can be adapted beyond English grammar and used for teaching other languages. It can also follow global learning standards like the Common European Framework of Reference. Future improvements could include an offline mode, instructions in multiple languages, and features that support group learning. With further development, it can become a flexible, worldwide tool that brings learners together through fun, effective, and inclusive language practice. The design of GRAMMINUTE is based on proven teaching principles, such as breaking lessons into small steps, repeating key ideas over time, and encouraging independent learning. It uses no paper and needs little teacher help, making it easy to use in many settings — from city schools to remote learning centres. Right now, very few grammar tools combine engagement, speed, sustainability, and wide reach like GRAMMINUTE does.

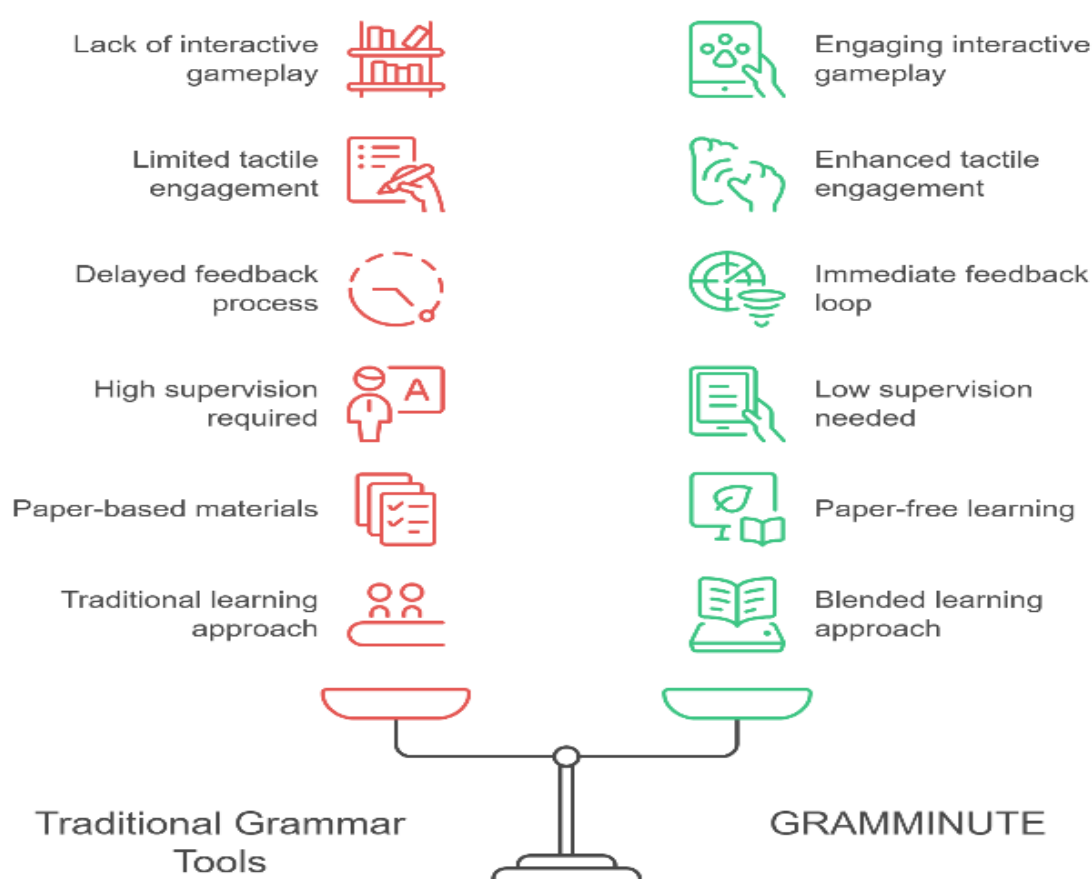
NOVELTY AND RECOMMENDATIONS

GRAMMINUTE: Learn Grammar in a Minute stands out as a truly innovative solution in the field of language education due to its unique blend of physical interaction, digital integration, and time efficient design. While many language tools focus solely on digital delivery or traditional instruction, GRAMMINUTE bridges the gap by combining tactile gameplay with online assessment, creating a multisensory learning experience that engages both cognitive and psychomotor skills. This hybrid model is particularly novel in grammar instruction, where interactive, hands-on resources are rare.

The one-minute challenge format introduces a new paradigm in language learning and micro practice that fits into short time slots, reduces learner fatigue, and encourages daily habit formation. Unlike conventional gamified apps that prioritise entertainment over learning, GRAMMINUTE does not just teach grammar, but it reimagines how grammar can be learned in the digital age.

Figure 2: Comparative Features of GRAMMINUTE and Existing Grammar Learning Tools

GRAMMINUTE offers interactive, engaging, and efficient grammar learning.



To increase the impact of GRAMMINUTE, a few key steps are suggested. First, the tool should be tested with more learners across different ages, skill levels, and schools to collect strong evidence on how well it supports learning and how easy it is to use. Second, the digital part should be turned into a mobile app that works even without internet, so it can be used in remote or low-resource areas. In the future, adding support for other languages and lessons that adjust to each learner's progress could make the tool even more helpful. With further improvements and wider sharing, GRAMMINUTE can grow into a leading solution for creative and effective grammar learning worldwide.

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