IRSTI 14.35.09
DOI https://doi.org/10.52081/PhSJ.2025.v12.i4.069

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PEDAGOGICAL AND METHODOLOGICAL PRINCIPLES OF TEACHING VOCABULARY THROUGH TECHNOLOGICAL TOOLS

Abstract

This article explores the pedagogical and methodological foundations of vocabulary instruction through technological tools, presenting a research-informed framework for modern classroom application. By synthesizing foundational theories on cognitive processing, learner autonomy, and language acquisition, the study identifies several essential pillars for effective lexical growth: multimodal input, contextualized exposure, spaced repetition, learner motivation, and learner autonomy.

A critical analysis of conventional teaching methods reveals that traditional approaches often rely too heavily on decontextualized memorization and teacher-led delivery. This highlights a pressing need for more integrative, student-centered strategies. In response, the article proposes a cyclical methodological model structured around three interconnected phases: vocabulary input, interactive practice, and systematic consolidation. Rather than treating digital tools as superficial additions, this framework demonstrates how technology can be used purposefully to enhance learner engagement and long-term retention. While the model remains theoretical and awaits empirical validation, it provides a principled roadmap for integrating technology into vocabulary pedagogy. Future research should evaluate its implementation across various educational contexts to test its overall effectiveness.

Keywords:

vocabulary acquisition; technology-enhanced learning; computer-assisted language learning (CALL); mobile-assisted language learning (MALL); multimodal learning; spaced repetition; learner autonomy; contextualized vocabulary instruction; pedagogical framework.

For citation:

Omirzakkyzy A., Baigunissova G.I., Latanova R.U. Pedagogical and methodological principles of teaching vocabulary through technological tools // Philological Sciences Journal. – 2025. – Vol.12. – №4. – Pp. 46-55. DOI https://doi.org/10.52081/PhSJ.2025.v12.i4.069

Introduction

Vocabulary is the indispensable core of language acquisition, serving as the primary vehicle for communication. To use a structural metaphor, if language is a house, vocabulary represents the bricks. Just as a building cannot exist without material, language is inconceivable without words. While scholars often debate the relative importance of grammar, the reality is that without vocabulary, nothing can be interpreted. Faulty grammar might hinder clarity, but a total lack of words makes communication impossible. Vocabulary is the fundamental component through which intentions and meanings are conveyed; even a learner with perfect grammatical command will struggle significantly if their lexical range is inadequate.

Vocabulary is particularly vital for reading comprehension. A learner's lexical variety directly dictates their ability to perceive context and engage with a text. While a sparse vocabulary decreases interpretive depth, a wide breadth allows for meaningful engagement and higher-order analysis.The same principle applies to oral proficiency. Limited vocabulary causes pauses and hesitations, undermining the speaker's accuracy and confidence. Conversely, a vast lexicon enables precise and sure communication. In listening and writing, vocabulary is equally critical. Comprehending auditory information requires a strong receptive vocabulary, whereas writing demands productive skills. Only with a sufficient lexical bank can learners manifest their thoughts with coherence and sophistication.

Traditional instruction has long relied on rote memorization, word lists, and translation. While these techniques may seem practical initially, learners often struggle to apply words correctly or forget them entirely over time. To solve this, technology offers a path toward context, interaction, and genuine engagement.

The digitalization of education has revolutionized pedagogical frameworks. Technology is now an indispensable part of life, and educators have adopted it to provide adaptive settings and ubiquitous access to materials, allowing for study at any time or place. The explosion of mobile apps and Learning Management Systems (LMS) has fundamentally changed the learner's toolkit. Digital flashcards and interactive exercises offer personalization and instant feedback that textbooks cannot. These resources provide the consistent, repeated exposure necessary for mastering new lexis. A major innovation in this field is the move toward rich, multimedia input. By combining audio, video, and imagery, these tools create a sensory experience that accommodates diverse learning styles. This multimodal approach encourages deeper cognitive processing, making it easier for students to retain complex vocabulary long-term. Consequently, digital tools should not be treated as optional add-ons and examining the methodological foundations that make them effective should be begun.

The significance of technological frameworks lies in their capacity to mitigate traditional hurdles in lexical acquisition. Because students often find vocabulary study monotonous, digital tools offer a necessary shift toward learner-centric instruction. However, the true challenge is methodological; aligning these tools with pedagogical goals is essential for achieving substantive learning gains.

A primary driver for this research is technology's ability to boost motivation. Unlike rote memorization, digital ecosystems provide immediate feedback and progress tracking, fostering a sense of agency. Furthermore, digital resources facilitate a multimodal experience by synthesizing auditory, visual, and kinesthetic inputs that enable learners to make a robust understanding through diverse sensory channels. Technology also promotes self-regulated learning, allowing students to navigate the curriculum at their own pace. This shift from passive consumption to active autonomy encourages lifelong vocabulary development. Academically, this study clarifies instructional principles for tech integration and underscores the importance of pedagogical alignment.

Despite its importance, classroom reality often relies on decontextualized rote memorization. These "old-school" strategies have a short shelf life and rarely foster the deep engagement required for long-term use. Students often find themselves able to define a word in isolation but unable to

apply it in context. The most significant hurdle is the lack of an instruction for educators. Technology is frequently introduced as a superficial add-on rather than being strategically aligned with core goals. This disconnect highlights a need for systematic inquiry to define the principles that transform gadgets into engines for growth.

The primary aim of this article is to synthesize the pedagogical principles that make technology-enhanced vocabulary instruction effective. This study seeks to establish a theoretically grounded methodological framework that ensures digital interventions are systematic, meaningful, and pedagogically relevant.

Research questions:

Question 1: What pedagogical principles strengthen effective vocabulary teaching through technological tools?

Question 2: How can these core principles be integrated into a cohesive methodological framework designed for technology-enhanced vocabulary teaching?

Materials and research methods

This study uses a theoretical research design based on a thorough review of existing literature. Instead of gathering new field data, the goal is to look at current research on vocabulary learning and technology to find common patterns. By synthesizing these insights, the core methods are aimed to identify that make digital tools effective and organize them into a clear, usable framework.

Taking this conceptual approach allows for a deep dive into established theories without being limited by the specific variables of an experiment. This is the most effective way to answer the research questions, as the study focuses on building a framework and exploring ideas rather than measuring specific test scores or classroom outcomes. The foundation of this study is built on a wide variety of academic sources. Most of the information comes from peer-reviewed journals, scholarly books, and respected publications in the fields of language teaching and educational technology.

In particular, researches covering second language development, mobile and computer-aided learning (MALL and CALL), and theories that prioritize student independence and multimedia use are mainly focused and reviewed. These sources provide the most essential data needed to identify the recurring strategies that help integrate technology into the vocabulary classroom. By including both classic, foundational studies and the latest research, the study offers a balanced view that respects established knowledge while acknowledging new technological shifts.

Because this is a conceptual study that does not involve testing on people or collecting private data, formal ethical approval was not necessary. However, high academic standards throughout the process have been maintained that includes strictly citing all sources and ensuring the work follows honest academic practices. Since the study relies entirely on published information, there are no concerns regarding participant privacy or consent.

Literature review

It is a well-established fact in applied linguistics that vocabulary mastery is a fundamental pillar of second language (L2) fluency and the ability to communicate effectively. While traditional curricula have occasionally prioritized grammatical structures, vocabulary remains the most essential tool for conveying meaning. Vocabulary is the cornerstone of L2 proficiency and communicative success; while grammar is important, lexical knowledge is the primary vehicle for meaning. Research confirms that vocabulary size is a dominant predictor of both reading comprehension and general language ability [Nation, 2001; Laufer, 1997]. However, mastery involves more than breadth; it requires depth, encompassing a word's form, meaning, and contextual use [Nation, 2013].

Cognitive models suggest that retention is a product of «Levels of Processing,» where depth

of processing leads to better memory consolidation [Craik, Lockhart, 1972]. This is supported by Schmidt's [Schmidt, 1990] Noticing Hypothesis,], which argues that conscious attention to new forms is a prerequisite for acquisition. Furthermore, empirical evidence on retrieval practice and distributed learning shows that long-term retention is significantly strengthened through repeated, spaced engagement [Karpicke, Roediger, 2008; Cepeda, 2006].

Traditionally, vocabulary teaching has centered on teacher-led activities like rote memorization, bilingual word lists, and paper flashcards. While these methods focus on intentional study, they often deprive words of their communicative context [Nation, 2001]. The grammar-translation tradition, for example, tends to prioritize simple word-for-word equivalence over the ability to use language in real-world scenarios [Richards, Rodgers, 2014].

Although explicit study does aid lexical growth, relying solely on decontextualized memorization rarely guarantees that a learner can actually use the word productively [Schmitt, 2008]. Furthermore, teacher-heavy instruction often stifles learner autonomy, leaving students with fewer chances for genuine engagement [Little, 1991]. Even effective tools like paper flashcards are limited; their success depends entirely on whether they are paired with modern strategies like spaced review and active retrieval [Nation, 2001]. These gaps suggest that more integrated, contextually rich strategies are necessary for effective learning.

The rise of CALL and MALL has shifted the focus toward technology-driven vocabulary teaching. Digital tools are particularly effective at boosting motivation because they offer interactive, adaptive environments and instant feedback [Dörnyei, 2001; Stockwell, 2013]. By merging text, audio, and visuals multimedia resources align with established learning principles to improve how learners process and retain new words [Mayer, 2009; Chun, Plass, 1996].

Moreover, digital platforms provide the contextual depth and distributed practice necessary for long-term memory [Godwin-Jones, 2018; Nakata, 2011]. These technologies also foster learner autonomy, enabling students to manage their own pace and review schedules [Reinders, Benson, 2017]. However, while the benefits of these individual features are well-documented, they are often studied in isolation. There is a clear need for a unified pedagogical framework that systematically combines motivation, multimodality, context, and autonomy into a single, effective approach.

Discussion and results

The Principle of Learner Motivation

At the core of this framework is the conviction that motivation is the primary engine of successful technology-enhanced vocabulary acquisition. Digital environments profoundly reshape a student's internal drive and their response to educational goals. Zhang and Viriyavejakul demonstrate this shift, noting that students using digital tools experience a substantial boost in intrinsic motivation and self-efficacy [Zhang, Viriyavejakul, 2025]. Beyond mere interest, the structured, goal-oriented nature of tech-based tasks sharpens extrinsic focus, proving that technology does more than entertain—it sustains the long-term effort necessary for lexical mastery.

The Principle of Multimodal Learning

The integration of multimodal input, combining visual, auditory, and paralinguistic cues, is a cornerstone of this framework. Zhang and Zhang found that for young learners with lower proficiency, multimodal input pairing verbal information with related imagery is significantly more effective than verbal-only methods for building productive vocabulary [Zhang, Zhang, 2024]. While all input types support receptive knowledge, the multimodal advantage is most pronounced in language production. However, this benefit is moderated by existing vocabulary size, following Mayer's redundancy principle where instruction must balance verbal and non-verbal elements to ensure input remains comprehensible without causing cognitive overload [Mayer, 2017].

The Principle of Learner Autonomy

A central pillar of the framework is the cultivation of learner autonomy. Digital tools are uniquely suited to help students lead their own development. Zhang et al. observed that learners

using CALL platforms, such as Anki and Quizlet, exhibited significantly higher autonomy scores than those in traditional settings [Zhang, 2025]. This aligns with Self-Determination Theory, suggesting that students who feel competent and independent learn more effectively. The strength of these ecosystems lies in the control they grant; students can dictate their own pace and select relevant content. However, because some learners struggle with self-management, autonomy must be actively scaffolded through metacognitive strategies rather than simply assumed.

The Principle of Spaced Repetition

Spaced repetition is essential for memory consolidation, supported by evidence from mobile-assisted vocabulary learning (MAVL). A 2024 review in Frontiers in Education underscores that MAVL tools, particularly digital flashcards, dramatically boost long-term retention. By automating review intervals, these tools foster independence and maintain high motivation in EFL contexts. Compared to "old-school" paper lists, digital tools offer superior personalization. However, the evidence suggests a hybrid approach is best; by blending algorithmic efficiency with teacher-led communicative practice, the framework supports both receptive and productive lexical growth [Teymouri, 2024].

The Principle of Contextualized Vocabulary Learning

This framework prioritizes contextualized learning because the information surrounding a word determines its "mental depth." Hasegawa's research indicates that while contextual cues may not always cause immediate results in test scores, they significantly improve the image ability of words [Hasegawa, 2010]. Context provides a psychological "hook" that rote memorization lacks, constructing a foundation for deeper semantic networks. Moving away from isolated lists allows learners to build the cognitive connections necessary for the spontaneous production of language in real-world conversation.

The strategies outlined here are designed to be as functional as they are theoretically robust. By grounding multimedia input, contexualized learning, and spaced repetition in established pedagogy, the proposed methodological framework can be ensured to succeed. These framework should solve the problem of limited classroom time by allowing students to consolidate learning independently, while teachers monitor progress with minimal overhead. This is a straightforward, usable strategy applicable across diverse settings.

The framework organizes tech-driven study into three interconnected, cyclical stages, creating a feedback loop grounded in research-based logic.

Stage 1: Input (Multimodal & Contextual). Instruction begins with multimedia exposure using audio, video, and imagery to present vocabulary within a meaningful context. This multisensory approach increases "image ability" and enhances natural curiosity. The teacher acts as a facilitator, simplifying complex input and highlighting essential terms, while comprehension checks ensure the learner is ready for the next phase.

Stage 2: Practice & Interaction. Learners move into interactive digital tasks, such as gamified quizzes or collaborative platforms. This stage focuses on context-dependent usage, leverages student motivation and provides immediate, adaptive feedback. The teacher monitors engagement, stepping in to provide strategic guidance or to facilitate deeper interpersonal interaction when digital tasks reach their limits.

Stage 3: Consolidation & Recycling. Finally, students employ spaced repetition apps for self-directed review, locking vocabulary into long-term memory. This stage is fundamentally cyclical; any words not yet mastered are recycled back into Stage 1. This process helps students develop the metacognitive awareness necessary to track their own growth and manage their learning journey.

This model ensures technology remains a purposeful tool rather than a distraction. By linking exposure, context, and autonomy, it creates a flexible system accommodating individual learning speeds. Unlike traditional rote methods, the feedback loops and teacher scaffolding make this approach highly adaptable to real-world classrooms.

The expected outcomes are clear: heightened engagement, superior retention, and a shift toward independent learning. While theoretically supported, the framework's conceptual nature and

the need for further wide-scale empirical testing must be acknowledged. For educators, this provides a principled roadmap beyond the limitations of traditional word lists. Future research should examine how this model performs in diverse settings over the long term and how it can best be integrated into hybrid environments. The goal remains a systematic, tech-enhanced approach that serves as a meaningful engine for vocabulary growth without falling back on old habits of rote memorization.

Conclusion

This study examined the pedagogical foundations of tech-driven vocabulary teaching, resulting in a framework built on established research. By drawing on theories of cognitive processing and learner autonomy, the article identified four pillars of effective lexical growth: multimodal input, contextualized exposure, spaced repetition, self-directed practice and learner motivation. The sources analyzed in literature review highlighted that traditional, teacher-centered methods often rely too heavily on rote memorization and decontextualization causing learners struggle with long term memorization and creating a clear need for more integrative digital approaches.

To address this, the article proposed a cyclical framework focused on multimodal and contextual input, interactive practice, and systematic consolidation, all supported by adaptive tools and formative feedback. This model proves that technology can be used purposefully rather than as a superficial add-on. Although this conceptual framework requires future empirical testing, it serves as a theoretically solid guide for modern, multilingual classrooms. Future studies should now evaluate how this model adapts to different proficiency levels and diverse educational environments.

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ТЕХНОЛОГИЯЛЫҚ ҚҰРАЛДАР АРҚЫЛЫ СӨЗДІК ҚОРДЫ ОҚЫТУДЫҢ ПЕДАГОГИКАЛЫҚ ЖӘНЕ ӘДІСТЕМЕЛІК ПРИНЦИПТЕРІ

Аңдатпа. Бұл мақалада технологиялық құралдар арқылы сөздік қорды үйретудің педагогикалық және әдістемелік негіздері қарастырылып, заманауи сынып жағдайында қолдануға арналған ғылыми негізделген құрылым ұсынылады. Когнитивті өңдеу, білім алушының дербестігі және тілді меңгерудің іргелі теорияларын жинақтай отырып, зерттеу лексикалық дамудың бірнеше маңызды тіректерін анықтайды: мультимодальды енгізу, контекстік танысу, интервалды қайталау, білім алушының мотивациясы және дербестігі.

Дәстүрлі оқыту әдістеріне сыни талдау жасау барысында үйреншікті тәсілдердің мәтіннен тыс жаттауға және мұғалімнің басымдығына тым қатты сүйенетіні анықталды. Бұл интеграцияланған, білім алушыға бағытталған стратегиялардың қажеттілігін көрсетеді. Осыған орай, мақалада өзара байланысты үш кезеңнен тұратын циклдік әдістемелік модель ұсынылған: сөздік қорды енгізу, интерактивті практика және жүйелі бекіту. Бұл құрылым цифрлық құралдарды жай ғана қосымша ретінде емес, білім алушының қызығушылығын арттыруға және ақпаратты ұзақ мерзімді есте сақтауды қамтамасыз ету үшін мақсатты түрде қалай қолдануға болатынын көрсетеді. Ұсынылған модель теориялық сипатта болып, эмпирикалық тексеруді талап еткенімен, ол сөздік қорды оқытуда технологияларды жүйелі түрде интеграциялаудың негізгі бағытын айқындайды. Болашақ зерттеулер оның жалпы тиімділігін тексеру үшін әртүрлі білім беру контексттерінде іске асырылуын бағалауы тиіс.

Тірек сөздер: сөздік қорды меңгеру; технологиямен нығайтылған оқыту; компьютерлік тіл үйрену (CALL); мобильді тіл үйрену (MALL); мультимодальды оқыту; интервалды қайталау; білім алушының дербестігі; контекстік сөздік оқыту; педагогикалық құрылым.

Сілтеме жасау үшін: Өмірзаққызы А., Байгунисова Г.И., Латанова Р.У. Технологиялық құралдар арқылы сөздік қорды оқытудың педагогикалық және әдістемелік принциптері // Philological Sciences Journal. – 2025. – Vol.12. – №4. – Pp. 46-55.

DOI https://doi.org/10.52081/PhSJ.2025.v12.i4.069

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ПЕДАГОГИЧЕСКИЕ И МЕТОДИЧЕСКИЕ ПРИНЦИПЫ ОБУЧЕНИЯ ЛЕКСИКЕ С ПОМОЩЬЮ ТЕХНОЛОГИЧЕСКИХ СРЕДСТВ

Аннотация. В данной статье исследуются педагогические и методические основы обучения лексике с использованием технологических инструментов, и предлагается научно-обоснованная модель ее применения в современной образовательной среде. Путем синтеза фундаментальных теорий когнитивной обработки информации, автономии обучающихся и усвоения языка в исследовании определяются ключевые факторы эффективного развития лексических навыков: мультимодальное введение материала, контекстуальное предъявление, интервальные повторения, мотивация и автономия обучающихся.

Критический анализ традиционных методов обучения показывает, что классические подходы зачастую чрезмерно опираются на деконтекстуализированное заучивание и доминирующую роль преподавателя. Это подчеркивает острую необходимость в разработке более интегративных стратегий, ориентированных на студента. В качестве решения в статье предлагается циклическая методическая модель, структурированная по трем взаимосвязанным фазам: введение лексики, интерактивная практика и систематическое закрепление. Данная концепция демонстрирует, что цифровые инструменты следует рассматривать не как формальное дополнение, а как целевое средство повышения вовлеченности обучающихся и долгосрочного сохранения знаний. Несмотря на то, что предложенная модель носит теоретический характер и требует эмпирической проверки, она

представляет собой методологическую «дорожную карту» для системной интеграции технологий в преподавание лексики. Будущие исследования должны быть направлены на оценку эффективности реализации данной модели в различных образовательных контекстах.

Ключевые слова: усвоение лексики; обучение с использованием технологий; компьютерное обучение языку (CALL); мобильное обучение языку (MALL); мультимодальное обучение; интервальные повторения; автономия обучающегося; контекстуальное обучение лексике; педагогическая модель.

Для цитирования: Өмірзаққызы А., Байгунисова Г.И., Латанова Р.У. Педогогические и медодические принципы обучения лексике с помощью технологических средств // Philological Sciences Journal. – 2025. – Vol. 12. – №4. – Pp. 46-55.

DOI https://doi.org/10.52081/PhSJ.2025.v12.i4.069

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The article was submitted on 3.10.2025; approved after reviewing on 11.10.2025; accepted for publication on 20.10.2025
Мақала редакцияға 3.10.2025 ж. келіп түсті; 11.10.2025 ж. рецензиядан кейін мақұлданды; 20.10.2025 ж. баспаға қабылданды.
Статья поступила в редакцию 3.10.2025г.; одобрена после рецензирования 11.10.2025 г.; принята к публикации 20.10.2025