Bodhi International Journal of
Research in Humanities, Arts and Science

Vol. 10 Special Issue 1 January 2026
E-ISSN: 2456-5571

Mobile-Assisted Language Learning (MALL): Opportunities, Challenges, and Practical Classroom Integration

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Open Access

Manuscript ID:
BIJ-SPL1-Jan26-ES-035

Subject: English

Received : 15.10.2025
Accepted : 03.01.2026
Published : 22.01.2026

DOI: 10.64938/bijsi.v10si1.26.jan035

Abstract

Mobile-Assisted Language Learning (MALL) leverages smartphones and related technologies to extend language learning beyond the classroom. This paper presents a focused review of recent pedagogical applications of MALL, examining how mobile affordances—portability, multimedia, connectivity—support vocabulary, grammar, listening, speaking, reading, and writing. Using a systematic review approach, the study synthesizes findings from empirical and classroom-based reports to identify effective practices, obstacles to implementation, and pragmatic strategies for teachers. Results indicate that MALL yields measurable gains when embedded within blended, task-based designs, and when teachers select apps and activities that align with curricular goals. Persistent barriers include device inequity, variable app quality, distraction, and limited teacher training. The paper concludes with concrete classroom recommendations—app-evaluation criteria, scaffolding techniques, and equity measures—and proposes directions for longitudinal and comparative research. These recommendations aim to help practitioners integrate mobile tools meaningfully while maintaining academic rigor and assessment validity.

Keywords: mobile-assisted language learning, MALL, blended learning, vocabulary, task-based learning

Introduction

The rapid proliferation of mobile devices has presented language educators with both opportunities and dilemmas. Where once classroom walls constrained instruction, mobile technologies now permit learning in situ, across time and contexts. Teachers are experimenting with applications that support vocabulary flashcards, spoken journals, micro-listening tasks, and location-based prompts. However, a gap remains between technological potential and sustainable pedagogical integration. This paper addresses that gap by synthesizing literature and practical classroom reports to offer actionable guidance for teachers, with attention to equity, assessment, and teacher readiness. Additionally, the introduction frames MALL within broader trends in digital pedagogy and explores its relationship with blended learning, flipped classrooms, and task-based instruction.

Material & Methods

This study used a focused systematic review approach. Databases searched included ERIC, Google Scholar, and relevant education journals (2008–2024).

Inclusion Criteria Were

(a) Empirical or classroom-based reports on mobile-supported language learning; (b) explicit descriptions of pedagogical design or outcomes; and (c) relevance to secondary or tertiary language classrooms. Exclusion criteria removed commercial marketing

materials and papers lacking methodological information. Identified studies were coded for target skill (vocabulary, grammar, listening, speaking), study design (quasi-experimental, case study, mixed methods), and reported outcomes. Additionally, practical classroom examples from college-level English courses were collected to ground recommendations in real teaching practice. This mixed approach ensured that both quantitative and qualitative insights were included, enabling a richer interpretation of how MALL functions across diverse settings.

Findings & Results

Analysis of the literature reveals several recurring findings. First, vocabulary gains were consistently reported where mobile activities used spaced repetition and rich multimedia cues. Second, listening comprehension benefited from micro-listening tasks and podcasts because learners could control playback and rehearse segments. Third, speaking skills improved most when recording tools and peer feedback were integrated into assessment cycles; automated speech-recognition was reported as a helpful but imperfect supplement.

Fourth, grammar learning showed better transfer when embedded in communicative mobile tasks rather than isolated drills. Quantitatively, quasi-experimental studies report modest to moderate effect sizes for mobile-enhanced interventions (commonly reported Cohen's d in the 0.3–0.6 range in several classroom studies). However, these gains were contingent on teacher guidance, task authenticity, and sustained engagement. Where implementation lacked scaffolding, mobile activities produced little measurable improvement and often increased off-task behavior. In addition to academic performance, studies highlighted affective outcomes: learners reported increased motivation, a stronger sense of autonomy, and more opportunities for authentic interaction. Yet, motivation was often short-term if activities were repetitive or disconnected from broader learning goals.

Interpretation & Discussion

The findings suggest that MALL's effectiveness is pedagogically conditioned. Mobile tools do not automatically produce learning; rather, they amplify whatever instructional design they are embedded within. When teachers craft tasks that are authentic, scaffolded, and assessed as part of a blended course, mobile tools provide valuable affordances such as flexible access and multimodal representation. The role of the teacher shifts from knowledge transmitter to designer, mediator, and assessor of mobile tasks. Equity emerges as a critical interpretive lens. Device ownership and network access vary, and institutions must guard against widening achievement gaps. Moreover, app marketplaces are populated with superficially engaging tools that lack empirical vetting; educators should apply an evidence-based rubric when choosing applications. Finally, tensions between convenience and assessment validity require careful design: formative mobile assessments can be informative, but summative judgments should triangulate mobile data with performance measures. Further discussion must also account for cultural differences: studies from Asian contexts often emphasized collaborative and gamified learning, while Western contexts reported higher levels of individualized use. This cultural variation highlights the importance of adapting MALL practices to local learning traditions and expectations.

Conclusion

Mobile-Assisted Language Learning offers promising ways to deepen and diversify language practice, but its success rests on alignment with pedagogy and attention to access. Practically, teachers should adopt a blended approach, evaluate apps against academic criteria, scaffold tasks, and plan for equitable access. Future research should pursue longitudinal designs, standardized outcome measures, and studies across varied socio-economic contexts to refine understanding of when and for whom MALL is most effective. With careful implementation, MALL can be an enduring and pedagogically responsible tool for language educators. The conclusion emphasizes that while

technology evolves rapidly, the human element—teachers' creativity, guidance, and empathy—remains central to meaningful language education.

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