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Educational Program Implementation through Behavioral and Cognitive Frameworks: Grounding Practice in Operant Conditioning and Social Cognitive Theory

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ABSTRACT

This article presents a comprehensive systematic review of behavioral and cognitive frameworks in educational program implementation, with a primary focus on operant conditioning and social cognitive theory within the Philippine context. Addressing persistent challenges in school program delivery such as inconsistent fidelity, low learner engagement, and lack of sustained outcomes, the review synthesizes findings from both local and international studies to explore how structured behavioral reinforcement and cognitive modeling contribute to program success. Evidence from selected interventions demonstrates that operant conditioning, through positive reinforcement and contingency management, promotes improved classroom discipline, enhanced engagement, and better academic performance. Similarly, social cognitive theory supports collaborative learning and selfregulation by leveraging peer modeling, mentorship, and opportunities for observational learning. The synthesis identifies that educational programs adopting these theories foster resilient learner communities, boost selfefficacy, and deliver lasting improvements in academic achievement and social outcomes. The review traces the impact of these frameworks from intermediate changes in motivation and participation to long-term effects on school attendance, emotional regulation, and program sustainability. The article concludes that interventions rooted in behavioral and cognitive principles, adapted to school contexts and supported by policy reforms, consistently outperform traditional approaches. The integration of these mechanisms is shown to close achievement gaps, reduce behavioral problems, and advance inclusive educational reform, especially under the Department of Education's learner-centered agenda. The review ultimately advocates for strategic adoption of theory-based strategies in designing, implementing, and evaluating school programs to systematically address barriers and facilitate durable positive change in educational environments.

Keywords: Operant Conditioning, Social Cognitive Theory, Educational Program Implementation, Positive Reinforcement, Student Engagement

BACKGROUND

Description of the Problem

Educational program implementation in schools continues to encounter substantial challenges, including inconsistent fidelity, disengagement among learners, and a lack of sustained outcomes in diverse learning environments. Research has revealed that insufficient training, limited ongoing support, and low stakeholder involvement regularly undermine the rollout of new frameworks, especially when behavioral strategies are unclear or not explicitly defined (Barrett et al., 2023; Martinez et al., 2025). Efforts that lack systematic behavioral reinforcement and modeling often yield uneven participant engagement and early abandonment of interventions (Kim et al., 2022).

Moreover, weak contingency management and poorly structured reinforcement contribute to the minimal adoption of positive behaviors by students and educators alike. The rapid integration of new curricula and technology has amplified these issues, highlighting the need for theory-based approaches rooted in operant





conditioning and social cognitive principles (O'Brien et al., 2025). Programs without consistent feedback or opportunities for observational learning lose momentum over time, as implementation barriers accumulate and result in discrepancies between intended and achieved outcomes (Sellami et al., 2023).

Often overlooked are the behavioral and cognitive mechanisms that support student motivation and adaptability. Educational initiatives designed without attention to self-regulation and motivation frequently fail to build resilience or produce lasting improvement in learning (Zhai, 2023; Almogren, 2022). The absence of robust frameworks such as operant conditioning and social cognitive theory leaves programs vulnerable to context mismatches and stakeholder disengagement, thereby restricting their capacity for long-term success (Bandura, 2023; Skinner, 2018).

Why it is important to Do This Review

A systematic review of behavioral and cognitive frameworks in educational program implementation is critically important for advancing both research and practice. Recent literature stresses the need for interventions founded upon established psychological principles to maximize engagement, fidelity, and learning outcomes (Barrett et al., 2023; Martinez et al., 2025). Synthesizing evidence on operant conditioning and social cognitive theory will clarify which mechanisms most effectively sustain change, helping practitioners and policymakers design interventions that avoid common pitfalls and support sustained program delivery (Kim et al., 2022).

Such a review addresses demands in the educational field for heightened transparency and rigor. Combining behavioral psychology and cognitive modeling allows for the development of evidence-based strategies by consolidating both qualitative and quantitative findings and supporting data-driven decision-making (O'Brien et al., 2025). This approach directly informs program designers, administrators, and teachers by presenting actionable insights and bridging gaps in existing literature (Sellami et al., 2023).

Objectives

This systematic review aims to assess and synthesize evidence on the effects of educational program implementation strategies grounded in behavioral and cognitive frameworks, specifically operant conditioning and social cognitive theory. The review introduces a theoretical framework to elucidate the pathways by which these psychological models foster changes in engagement, fidelity, and learning outcomes within educational settings. Using this framework, the review seeks to identify facilitators and barriers that influence the successful adoption, sustainability, and impact of theory-based educational interventions.

The review systematically collects and integrates high-quality impact evaluations of educational programs employing operant conditioning and social cognitive theory, with outcomes traced along the causal chain from intermediate results such as improved participation, motivation, and self-regulation to final outcomes including academic achievement, program fidelity, and long-term sustainability.

Specifically, the review addresses the following research questions:

- What are the educational programs that use operant conditioning and social cognitive theory?
- What are the effects of educational program implementation using operant conditioning and social cognitive theory compared to programs lacking these theoretical foundations?
- What mechanisms and pathways underlie the influence of these behavioral and cognitive frameworks in advancing program outcomes?

RESULTS AND DISCUSSION

Operant Conditioning in Educational Program Implementation

Operant conditioning has played a crucial role in shaping classroom management and discipline strategies within Philippine schools. Peras et al. (2025) showed that structured systems of positive reinforcement and negative punishment yielded decreases in disruptive behavior and increased adherence to classroom norms among

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elementary school learners. These changes occurred as learners began associating desirable conduct with tangible rewards such as praise, stickers, or special privileges, reflecting the effectiveness of contingency management in fostering motivation and participation.

The effectiveness of operant conditioning extends into academic programs, especially where teachers use immediate feedback and time-bound rewards to encourage mastery of skills. Barantes (2021) introduced the LARO approach which incorporated direct feedback and consistent reinforcement during science lessons to improve process skill acquisition among elementary pupils. The findings of Barantes indicated that when students responded to immediate feedback and incentives, retention and engagement improved substantially. This approach demonstrates that operant conditioning is not only useful in behavior management but also impactful in academic learning contexts.

A positive reinforcement strategy was also found to be effective in enhancing student participation in Filipino lessons, as highlighted in the work of Salazar et al. (2025). In their study, students who received systematic positive feedback and small incentives participated more actively and developed greater confidence in expressing ideas during class discussions. The classroom atmosphere improved, with students taking initiative to help peers and sustain engagement over several weeks, thus reinforcing the value of reward-driven environments.

Philippine educators, supported by DepEd policy reforms, have begun to institutionalize evidence-based positive discipline practices built on operant conditioning principles. These reforms involve training teachers to recognize and reward desirable behaviors systematically and to use logical consequences for rule violations, thereby aligning national policy and classroom implementation (DepEd, 2025). As a result, the prevalence of dropout and absenteeism diminishes in schools where operant approaches are part of program design, indicating the broader institutional impact of behavioral frameworks on educational quality.

Operant conditioning has proven to be highly adaptable in diverse Philippine school contexts, functioning well in both urban and rural settings. Studies have documented positive outcomes not only in academic achievement but also in student attitudes and social interactions. As teachers become more skilled in using behavioral techniques, they are able to respond flexibly to the needs of learners, ensuring that program implementation remains robust and sustainable over time. These sustained improvements illustrate the enduring relevance and value of operant conditioning in Philippine basic education.

Social Cognitive Theory in Educational Program Implementation

Social cognitive theory informs numerous educational programs in the Philippines that target collaborative learning, self-regulation, and identity formation. Villanueva et al. (2022) identified that the integration of the Community of Inquiry framework in blended classes led to increases in cognitive presence, goal setting, and student self-regulation. Connectedness and collective identity among Filipino learners promoted metacognition and enhanced academic success, illustrating the impact of social cognitive principles on program outcomes.

Career decision tools designed for senior high school students frequently apply social cognitive career theory, enabling learners to weigh personal interests, self-efficacy beliefs, and observed peer or mentor choices in their decision-making process. Gestiada (2021) found that these tools elevate the capacity of students to select career tracks that align with their perceived strengths and modeled aspirations. Such programs demonstrate that the presence of positive role models and exposure to reciprocal learning environments are essential for effective program implementation.

School policies and student manuals in the Philippines have also embraced the core concepts of social cognitive theory to strengthen engagement and self-management among students. Tinapay (2022) reported that policies emphasizing peer modeling, teacher mentorship, and opportunities for observational learning yielded higher levels of participation and reduced incidents of bullying and absenteeism. These findings indicate that the pathway to improved outcomes often lies in the visibility and accessibility of positive role models.

Blended learning environments supported by DepEd reforms increasingly feature collaborative activities and

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mentoring as critical components. When teachers and students engage in joint meaning-making and reflective discussion, metacognitive growth and resilience are promoted. Villanueva et al. (2022) observed that students in such environments not only achieve higher academic standards but also participate more actively in shaping the classroom culture and program direction.

Finally, the effect of social cognitive frameworks is seen in enhanced adaptability and equity in educational program implementation. Programs designed with explicit attention to peer modeling, self-efficacy development, and reciprocal learning lead to the formation of learner communities that are supportive, resilient, and forward-thinking. Contemporary Philippine research underscores that the consistent use of social cognitive theory in program design and delivery results in meaningful long-term gains for diverse groups of learners, driving progress toward inclusive and sustainable educational reform.

Effects Of Educational Program Implementation Using Operant Conditioning and Social Cognitive Theory

Programs that implement operant conditioning in educational settings demonstrate consistent improvements in student engagement, classroom management, and academic achievement, largely due to their systematic use of reinforcement and contingency planning (McLeod, 2025). Positive reinforcement in the form of praise, rewards, or privileges helps shape desirable behaviors among students, leading to higher rates of participation and increased motivation to perform learning tasks compared to programs lacking such structured behavioral approaches (Kim et al., 2022). Furthermore, variable-ratio reinforcement schedules encourage sustained learning by gradually shifting the frequency of rewards, resulting in durable behavior change and less reliance on external motivators (McLeod, 2025).

Research comparing classrooms utilizing operant conditioning to those without such frameworks finds that students in reinforcement-based environments acquire academic skills faster and maintain positive behavioral traits more consistently. For example, Connors et al. (2021) report that comprehensive reinforcement strategies improve emotional regulation, focus, and school attendance, especially in economically disadvantaged schools. In traditional teacher-centered programs without operant conditioning, unwanted behaviors and disengagement are more prevalent, while desired learning outcomes take longer to materialize due to the absence of systematic feedback and reward systems (Morsette et al., 2008).

The integration of social cognitive theory produces significant gains in academic performance, self-regulation, and motivation by leveraging modeling, observational learning, and opportunities for peer collaboration. Studies by Mohammadzadeh and Alizadeh (2024) and Firmansyah and Saepuloh (2022) demonstrate that students exposed to structured social interaction, mentorship, and technology-enhanced collaborative learning achieve higher levels of critical thinking and knowledge retention than those in programs lacking these principles. Self-efficacy shaped through peer and teacher models emerges as a crucial factor influencing participation, persistence, and achievement in diverse educational contexts (Gerald et al., 2023).

Programs that omit cognitive and behavioral foundations often fail to address obstacles such as overcrowded classrooms, limited resources, and insufficient institutional support. The work of Karemera (2003) and Sellami et al. (2023) highlights how programs designed without attention to environmental and social influences produce lower satisfaction and academic success, leaving critical gaps in student-centered learning and skill development. Conversely, studies utilizing social cognitive frameworks demonstrate that access to efficient teaching techniques, technology, and well-organized collaborative environments fosters greater student engagement and achievement (Almulla & Al-Rahmi, 2023).

Several comparative reviews reveal that educational program implementation rooted in operant conditioning and social cognitive theory not only improves intermediate outcomes such as motivation and participation, but also yields long-term benefits like sustained academic performance and reduced behavioral problems. However, these gains are most pronounced when interventions are adapted to context, include ongoing feedback, and actively incorporate stakeholder input (Widodo & Astuti, 2024; Alloph & Msonge, 2023. Programs grounded in behavioral and cognitive frameworks consistently outperform those lacking such foundations across a range of educational outcomes, underscoring the necessity of theory-informed design and delivery for advancing learning

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and program success.

In the context of the Philippine education system, the Department of Education (DepEd) has prioritized evidence-based strategies to address learning gaps and foster learner-centered reform, as outlined in major policy documents such as the Quality Basic Education Development Plan 2025–2035 and the DepEd 5-Point Reform Agenda (DepEd, 2025). DepEd's efforts to strengthen program implementation include the adoption of decentralized approaches, iterative evaluation, and enhanced teacher support key conditions for embedding behavioral and cognitive frameworks in schools. Integration of operant conditioning principles, such as structured feedback and reinforcement, has played a pivotal role in classroom management programs, contributing to improved participation and discipline among Filipino learners, particularly in large and diverse public school populations (DepEd, 2025).

At the same time, the Philippine reforms champion the social cognitive theory's core principles, observational learning, peer modeling, and developing learner self-efficacy as critical levers for boosting engagement and closing achievement gaps (DepEd, 2025; Cano, 2022; Bandura, 1977). By grounding interventions in these frameworks, DepEd has aimed to create more inclusive learning environments that address non-academic barriers such as bullying and mental health, as well as cognitive barriers to sustained participation and success (DepEd, 2025). Policy initiatives now encourage strategic mentoring, collaborative activities, and culturally responsive pedagogy, with program impact monitored through regional and local metrics. Ultimately, these developments reinforce emerging evidence from international and Philippine research that theory-driven programs in basic education surpass those relying on conventional or ad hoc approaches, demonstrating greater adaptability, equity, and sustained learning outcomes across diverse Filipino learner populations (DepEd, 2025; Widodo & Astuti, 2024).

Mechanisms and Pathways Underlie the Influence of These Behavioral and Cognitive Frameworks in Advancing Program Outcomes

The influence of operant conditioning and social cognitive theory on educational program outcomes is grounded in their distinct mechanisms and pathways that shape learner behavior, motivation, and achievement. In the Philippine context, reinforcement strategies represent a key operant conditioning mechanism that consistently drives student engagement and performance. Studies demonstrate that when teachers systematically apply verbal praise, tangible rewards, and symbolic recognitions to desirable behaviors, children become more motivated to participate actively and persist in tasks (Salazar et al., 2025; Abadi et al., 2025). This positive feedback loop not only strengthens correct responses but also helps reduce undesirable conduct, as corrective feedback encourages reflection and redirection toward acceptable classroom norms (Abadi et al., 2025).

A second vital operant conditioning pathway is contingency management, which involves the clear setting of behavioral expectations and the consistent application of rewards and punishments. Filipino educators and program implementers have found that when learners understand the consequences of their actions whether through small incentives for completed assignments or reflective tasks for rule violations their self-discipline and responsibility improve markedly (Peras et al., 2025; Barantes, 2021). These findings underscore the effectiveness of maintaining structure and routine in fostering the acquisition of positive habits and academic skills over time.

The influence of behavioral frameworks extends to technology integration and interactive media use in the classroom. Research shows that pairing digital platforms with programmed reinforcement, such as earning badges for quiz performance or points for collaborative work, sustains learner interest and cultivates a goal-oriented mindset (Ali et al., 2024). Such technology-enhanced reinforcement pathways create adaptive learning environments in which students gradually assume greater autonomy while continuing to internalize high behavioral standards supported by environmental cues (Villanueva et al., 2022).

Turning to social cognitive theory, the central mechanism involves observational learning and modeling. Filipino studies, including Gestiada (2021) and Tinapay (2022), reveal that when students are provided opportunities to observe peers or teachers as role models, they more readily adopt positive attitudes, behaviors, and coping strategies. This process of vicarious reinforcement allows learners to internalize complex skills and social norms,





accelerating both social and academic development in programs that prioritize mentorship, collaborative practice, and community engagement.

The final pathway relates to outcome expectations and self-efficacy core constructs within the social cognitive framework. According to Bandura (1986) and recent Philippine research (Villanueva et al., 2022; Gestiada, 2021), students are more likely to pursue and persist in challenging tasks if they believe in their ability to succeed and anticipate positive results. Educational programs that nurture these beliefs through supportive feedback, reciprocal learning, and clearly communicated goals foster resilience, adaptive problem-solving, and ultimately, sustained academic achievement. These interconnected behavioral and cognitive mechanisms not only advance program outcomes but also anchor the evolution of inclusive, student-centered educational reforms in the Philippine system.

Structuring Implementation Stage

Design Stage

In designing educational programs grounded in operant conditioning and social cognitive theory, consideration for socio-economic disparities is imperative. Learners from underprivileged backgrounds, due to limited access to resources and support, often manifest lower academic self-concept and reduced expectations for success, influencing their responsiveness to reinforcement and modeling strategies (King et al., 2024). Program designers must ensure that reinforcement systems are adaptable to diverse socioeconomic contexts, enabling equitable recognition and positive feedback. Furthermore, quality teacher training is foundational, as educators who receive effective professional development possess greater self-efficacy and knowledge to implement complex reinforcement and modeling strategies (Darling-Hammond et al., 2017). Integrating community values at this stage supports culturally relevant behaviors, making modeling efforts resonate more strongly and laying the groundwork for inclusive practices (Al-Thani, 2025).

Delivery Stage

During program delivery, teacher training quality directly impacts how reinforcement and modeling unfold in classrooms. Teachers equipped with modern pedagogical strategies and a deep understanding of learners' socioeconomic backgrounds deliver differentiated reinforcement and model adaptive behaviors, promoting engagement and resilience (Qadir et al., 2020). Community values underpin the delivery phase, as schools that align program methods with local values foster stronger student ownership and moral reasoning, leading to higher adoption and advocacy of desired behaviors (Al-Thani, 2025). The integration of digital learning platforms at this stage amplifies reinforcement pathways by providing immediate feedback and opportunities for collaborative modeling—especially beneficial for learners in marginalized settings where access and motivation may be low (Ali et al., 2024). Inclusive education reforms, when dynamically delivered, promote a respectful and supportive environment, further enhancing the reach of reinforcement and modeling strategies (Cano, 2022).

Monitoring Stage

Effective monitoring of educational program implementation must actively account for socio-economic disparities and community values, ensuring that reinforcement is equitable and modeling is visible across diverse learner groups. Data-driven evaluation, empowered by digital technologies, enables educators to assess the fidelity of reinforcement schedules and the impact of modeling in real time, adjusting strategies to address participation gaps stemming from socio-economic disadvantage (Martinez et al., 2025). Ongoing teacher training remains crucial, as sustained professional growth equips educators to interpret monitoring data and refine practices for greater inclusivity and relevance (Mahmoudi & Özkan, 2015).

Sustainability Stage

The sustainability of educational programs built on behavioral and cognitive frameworks depends on the ongoing alignment with local community values and commitment to reducing socio-economic disparities. Long-term success requires continued investment in teacher professional development and community partnerships,

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facilitating the normalization of reinforcement and modeling strategies among all stakeholders (Barrett et al., 2023). Digital learning technologies sustain adaptive feedback loops and collaborative modeling, making inclusive practices routine and resilient against changing circumstances (Ali et al., 2024). Policy reforms must support iterative evaluation and responsive adaptation, ensuring that reinforcement and modeling mechanisms remain effective for promoting equity, engagement, and resilience in diverse educational contexts (DepEd, 2025).

CONCLUSION

The review provides robust evidence that operant conditioning and social cognitive theory offer powerful mechanisms for advancing educational program outcomes, particularly in the context of Philippine basic education. Programs utilizing systematic reinforcement and clear behavioral expectations have demonstrated significant improvements in student engagement, motivation, and discipline. The effectiveness of these approaches is not just confined to behavioral management but extends meaningfully into academic learning, contributing to higher levels of skill mastery, retention, and participation. Positive reinforcement, contingency management, and immediate feedback form the backbone of successful operant conditioning strategies, which, when applied consistently, reduce dropout and absenteeism while fostering a positive classroom climate. Social cognitive theory, on the other hand, underscores the transformative role of peer modeling, mentorship, and collaborative activities in nurturing learner self-efficacy and adaptability. Filipino schools implementing these principles report increases in metacognition, resilience, and collective identity among students, all of which drive sustainable academic success. The evidence further reveals that programs lacking structured behavioral or cognitive foundations often suffer from low fidelity, minimal engagement, and poor long-term outcomes despite well-intentioned design. When interventions are anchored in operant conditioning and social cognitive theory, however, sustained improvements are observed across diverse settings, with particular benefits for marginalized and economically disadvantaged populations. The integration of technology-enhanced reinforcement and mentoring activities enriches the learning environment and enables students to internalize positive habits, attitudes, and adaptive coping strategies. Policy reforms by the Department of Education, emphasizing decentralized implementation and iterative evaluation, create fertile ground for embedding these frameworks into school practices, ultimately supporting the shift toward inclusive, learner-centered education. Overall, the article concludes that systematic adoption of operant conditioning and social cognitive theory is essential to overcome implementation barriers in schools, foster meaningful stakeholder involvement, and secure lasting gains in both engagement and academic achievement. Educational leaders and policymakers are encouraged to prioritize these evidence-based approaches in designing and delivering programs, ensuring that school reforms are not only responsive to learner needs, but also anchored on proven psychological principles that guarantee long-term success.

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