ABSTRACT

The aim of this study is to investigate how to foster vocational college students' autonomy in learning by integrating metacognitive strategies and social cognitive learning theory. The study uses social cognitive learning theory to look at metacognitive strategies in a systematic and thorough way. It looks for similarities and places where the two can be combined in order to come up with a new and effective way to teach. 1) The integration of metacognitive strategies and social cognitive learning theory offers innovative perspectives and strategies for educational practice, fostering students' autonomy and social adaptability; 2) Through dual monitoring of cognition, nurturing social cognition, and deep integration of metacognitive strategies, educational practices can enhance students' cognitive control and social interaction abilities. 3) Future educational endeavors should focus on eliciting metacognitive awareness, integrating metacognitive strategies into teaching practices, and emphasizing social cognitive elements in evaluation mechanisms to address the complex challenges of modern education. 4) The fusion of these theories presents challenges in theoretical integration, teaching practices, assessment systems, and professional development, requiring innovative solutions and comprehensive support for educators and students alike. This study emphasizes the importance of teaching students reflective learning practices and actively cultivating metacognitive regulation abilities through cooperative learning. Furthermore, it underscores the necessity of integrating social cognitive aspects into assessment practices, thereby proposing an innovative educational approach.

Contribution/Originality: The study uniquely integrates metacognitive strategies with social cognitive learning theory. This fusion approach offers a novel perspective on enhancing student autonomy, providing a comprehensive framework that combines individual cognitive processes with social interactions, thereby contributing to innovative educational practices.

1. INTRODUCTION

Contemporary vocational colleges, serving as nurseries for cultivating practical operational skills, bear the societal expectations for developing applied talents. However, novices in this domain often find themselves entangled in the fog of learning. Compared to traditional universities, vocational education places a greater emphasis on students' practical skills and application abilities (Hasanefendic, Heitor, & Horta, 2016), necessitating students to swiftly adapt to more condensed subject matter and an environment that accentuates practical skills. Such disciplinary characteristics pose challenges, especially for those students who primarily encountered theoretical knowledge during high school. In this context, newcomers often confront academic pressures from various angles, coping with the fast-paced practical disciplines and handling the amalgamation of knowledge from...
diverse professional backgrounds. This challenge goes beyond disciplinary content changes; it manifests as a cognitive and disciplinary learning transformation. New students in vocational colleges or comprehensive universities, possessing diverse academic and socio-cultural backgrounds, represent a potential wealth of instructional resources but also introduce differentiated disciplinary cognitive challenges (Neilans, 2007). Varied disciplinary systems, thinking modes, and problem-solving approaches necessitate that new students find a balance within this diversity, forming a more comprehensive disciplinary cognitive structure—a profound cognitive struggle for them. In this age of information explosion, the definition of academic success is quietly evolving. While traditional high grades remain crucial, students facing complex and ever-changing knowledge systems and rapid technological and conceptual updates require a more comprehensive academic skill set in higher education (Cao, Wei, & Zhou, 2019). Self-regulated learning ability, as a crucial element, signifies not only students' ability to plan their learning processes reasonably but also assesses students' metacognitive, emotional, and motivational abilities during the learning journey.

Self-regulated learning ability is pivotal for students to adapt to the knowledge society. It encompasses various aspects, including students' clear understanding of their learning goals, cognitive comprehension of learning tasks, application of learning strategies, and reflection on the learning process (Zimmerman & Cleary, 2009). This ability is not only related to students' acquisition and mastery of knowledge but is also crucial for their future adaptability in the professional arena. Students equipped with self-regulated learning abilities can better adapt to unfamiliar environments and flexibly tackle diverse challenges in the workplace (Hartung & Cadaret, 2017). As a result, guiding and enhancing the self-regulated learning ability of vocational first-year college students transcends a single educational concern and becomes a paramount pursuit in shaping future societal talent.

In this context, education must consider how to shape vocational college students with strong autonomous learning abilities from the ground up through a profound and forward-thinking educational approach. Therefore, this study is dedicated to examining the application of Meta-cognitive strategies among freshmen in higher vocational colleges, emphasizing the integration of this approach to underscore students' awareness and control of their thinking processes. Within the context of higher vocational education, particularly among new students, this research addresses a knowledge gap regarding the application of Meta-cognitive strategies within this specific demographic. Furthermore, the study explores the integration of Social Cognitive Learning Theory in higher vocational colleges, emphasizing learning through observation and imitation of others. The combination of Social Cognitive Learning Theory with Meta-cognitive strategies holds the potential to bridge the research gap concerning how to integrate these two theories in the higher vocational college environment to enhance academic performance. Lastly, the research directs attention towards the relationship between self-regulated learning and academic achievement, aiming to explore the possibility of enhancing academic performance by elevating levels of self-regulated learning. This comprehensive research framework offers a more holistic and effective teaching methodology for higher vocational colleges, with the potential to facilitate improvements in freshmen's learning outcomes.

2. REVIEW

2.1. Metacognitive Strategies

2.1.1. Conceptual Analysis and Classification

In contemporary educational research, metacognitive strategies have gradually garnered widespread attention as a high-level cognitive regulatory approach. Metacognition is the cognition of cognitive processes, explicitly monitoring, regulating, and controlling one's learning processes and strategies (Mahdavi, 2014). Metacognitive strategies, built upon metacognition, rely on cognitive control to improve learning effectiveness and optimize the learning process. Metacognition, defined as the monitoring and control of cognitive activities, encompasses awareness, assessment, and adjustment of higher-order cognitive activities related to cognitive tasks, goals, and
strategies. The construction of metacognitive levels mainly includes three tiers: metacognitive awareness (Kallio, Virta, & Kallio, 2018), metacognitive control (Corno, 1986), and metacognitive evaluation (Desoete, 2007). Metacognitive awareness involves an individual’s perception of their cognitive processes, namely the monitoring and perception of cognitive processes; metacognitive control involves manipulating and regulating cognitive processes, including self-regulation and self-management cognitive strategies; and metacognitive evaluation pertains to assessing the value and effectiveness of cognitive activities.

Metacognitive strategies can be classified based on their target objects and regulatory processes. A standard classification divides metacognitive strategies into monitoring and control types. Monitoring metacognitive strategies primarily involves task monitoring and perception, as well as cognitive task monitoring, goal setting, and plan formulation. In contrast, control metacognitive strategies focus more on controlling and adjusting cognitive processes, encompassing the selection, execution, and adjustment of cognitive strategies (Schraw & Gutierrez, 2015; Son & Schwartz, 2002). Another classification, based on the specific functions of metacognitive strategies, divides them into cognitive monitoring strategies, metacognitive learning strategies, and metacognitive memory strategies.

In terms of individual differences, different learners may apply metacognitive strategies differently. On one hand, this is related to the individual’s level of metacognitive awareness, i.e., the degree to which individuals perceive their cognitive processes. On the other hand, individual differences in the selection and regulation of metacognitive control strategies may exist, closely tied to factors such as cognitive styles and learning styles.

2.1.2. Application in Teaching

Teachers should prioritize cultivating students’ metacognitive awareness to enhance their understanding of their learning processes. This can be achieved by guiding students through self-observation and reflection in the classroom, prompting them to form a clearer cognitive understanding of learning tasks. Through guided questioning, teachers can encourage students to reflect on how they learn and why they choose specific learning strategies, enhancing their awareness of the learning process.

Teaching should focus on helping students understand their learning processes and guide them in selecting and regulating appropriate metacognitive strategies. Teachers can stimulate students’ metacognitive control strategies through case analysis, problem-solving, and other methods (Jagals & Van der Walt, 2016). For example, during problem-solving, teachers can guide students to consider different solution approaches and analyze the strengths and weaknesses of each approach, thus guiding students to choose more effective metacognitive control strategies.

Given individual differences, personalized guidance in metacognitive strategies is necessary in teaching. This can be achieved by understanding students' cognitive styles, learning styles, and level of metacognitive awareness, thus tailoring teaching strategies accordingly. Students with different cognitive styles may have differences in the selection of metacognitive strategies; hence, teachers should flexibly apply various metacognitive strategies to meet the individual needs arising from these differences. With continuous technological development, integrating modern technology into teaching is critical to enhance the effectiveness of metacognitive strategies. For instance, online learning platforms can provide real-time feedback on students' learning processes, helping them better understand their learning states. The use of intelligent learning aids can offer personalized guidance on metacognitive strategies. This integration contributes to improved teaching effectiveness and aligns with contemporary students' demand for technologically supported learning.

2.2. Social Cognitive Learning Theory

2.2.1. Conceptual Analysis and Principles

The social cognitive learning theory’s core is the social shaping of cognitive mediation processes. This process emphasizes the cognitive nature of learning and underscores learning as a socially interactive activity. Cognitive mediation processes include attention, memory, thinking, and problem-solving, which are no longer individual
activities but are conducted through social interactions involving language, symbols, and models (Ellis, 2019; Nelson, 1998). This concept is particularly important for vocational colleges because, in order to cultivate practical operational skills, students must construct cognitive patterns for actual work through interactions with others.

Observational learning through modeling is a crucial principle in the social cognitive learning theory. By observing the behaviors, thoughts, and problem-solving processes of others, students can not only acquire new knowledge and skills but also gain insights into the processes and standards of actual work. This learning approach emphasizes that students gain experience through imitation and model observation, enabling them to better adapt to and understand the social environment. In teaching at vocational colleges, introducing real cases and industry mentors helps students build models of actual work, facilitating the transformation of theoretical knowledge into practical operational capabilities (Greer, Dudek-Singer, & Gautreaux, 2020). Social interaction is another important principle in social cognitive learning theory. Learning is no longer an isolated activity but an interaction in a social context. Through cooperative learning with classmates, teamwork on projects, students can obtain information and feedback from the social environment, promoting the development and adjustment of their cognitive structures. Social interaction also enables students to better understand social relationships at work, such as teamwork and organizational management, which fosters social skills (Devi, Khandelwal, & Das, 2017).

This theory emphasizes the close connection between learning and the social context, in the the social environment constrains the content and manner of learning. Therefore, vocational colleges should focus on learning in real social contexts, providing students with more authentic and practical learning experiences. This includes field internships and the construction of simulated practical environments, ensuring students can better adapt to future occupational demands. Self-regulated learning is an important goal of the social cognitive learning theory. Through social interaction and observational learning, students gradually develop the ability to set learning goals independently, choose learning strategies, monitor the learning process, and evaluate learning outcomes (Boekaerts & Corno, 2005). This self-regulated learning ability enables students to better adapt to complex and changing social environments. In vocational colleges, cultivating students' self-regulated learning abilities is a key aspect of teaching. Through teacher guidance and peer assistance, students can better understand their learning needs, formulate reasonable learning plans, and reflect and adjust in practical operations.

2.2.2. Application in Teaching at Vocational Colleges

Practice-oriented learning becomes a concrete manifestation of the social cognitive learning theory in teaching at vocational colleges. Vocational colleges emphasize practical application, and the social cognitive learning theory provides a theoretical foundation. Students can apply learned knowledge in real social contexts by introducing real-life cases, industry mentors, and field internships, constructing cognitive structures that align with actual work.

Cooperative learning and team projects become important in teaching at vocational colleges. The social cognitive learning theory emphasizes the importance of social interaction and cooperative learning. By organizing students in team projects and practical tasks, vocational colleges can foster students' abilities to collaborate with others, share resources, and promote social knowledge construction. This learning approach enables students to consider problems from different perspectives and cultivates their teamwork skills in solving real-world problems.

Introducing industry mentors and professional models is an extension of the social cognitive learning theory in practice. Through communication and learning from industry professionals, and by observing the practical processes of professional models, students can better integrate into professional fields and understand actual occupational requirements. This mentoring system and professional model guidance provide practical experience and help them build social networks that are relevant to their actual work.

Interdisciplinary teaching is another specific application of vocational colleges' social cognitive learning theory. By organizing comprehensive projects across disciplines, students can explore problems, integrate
knowledge, and enhance the interconnectedness of disciplines. This cultivates students' comprehensive abilities and helps them better adapt to complex and diverse social environments.

In vocational colleges technology-supported social interaction has become increasingly important. Utilizing modern technological means to support the social cognitive learning theory, practice facilitates communication among students and between students and mentors. Online collaboration platforms, virtual communities, and other tools provide more open and diverse learning social environments, allowing students to engage in learning activities more flexibly.

Practice reflection and case analysis have become effective methods of teaching at vocational colleges. The social cognitive learning theory advocates for a reflective learning process. Through reflecting on practical experiences and analyzing cases, students can gain a deeper understanding and evaluation of their learning processes, promoting a profound cognitive awareness of social situations. This reflection and analysis enhance students' practical abilities and cultivate their problem-solving skills in actual work.

3. THE FUSION OF METACOGNITIVE STRATEGIES AND SOCIAL COGNITIVE LEARNING THEORY

Metacognitive strategies and social cognitive learning theory, as two pivotal theories in education, converge not only in theoretical profundity but also provide novel perspectives in educational practice for cultivating students' autonomy and social adaptability.

3.1. Dual Monitoring of Cognition: Conceptual Analysis of Metacognitive Strategies and Correspondence with Social Cognitive Learning Theory

Metacognitive strategies emphasize self-monitoring, regulation, and control of cognitive processes, encompassing high-order cognitive activities such as perception, assessment, and adjustment of one's learning processes and strategies. This conceptual analysis aligns seamlessly with the core principles of social cognitive learning theory. The latter views learning as a social interaction process, where cognitive regulation is not only intrinsic but also a result of social interaction and engagement. Introducing metacognitive strategies into the framework of social cognitive learning theory reinforces students' awareness of their learning processes and embeds this cognitive process within social interaction, enhancing its societal adaptability.

One of the core concepts of metacognitive strategies is metacognitive awareness, or the individual's perception of their cognitive processes. This concept inherently relates to social awareness in social cognitive learning theory. In social cognitive learning, students need to perceive their own cognitive processes and gather information from others and the social environment (Schunk, 2013). This amalgamation of dual perceptions gives students a more comprehensive and profound cognitive experience, allowing them to gain diverse perspectives on cognitive tasks through communication and interaction with others.

Within the three levels of metacognitive strategies, metacognitive control involves manipulation and regulation of cognitive processes, including self-regulation and self-management strategies. This resonates with the social cognitive learning theory's emphasis on cooperative and observational learning. In social interaction, students are active regulators of their cognitive processes and co-constructors within the group. Through collaborative learning, students can optimize the selection and adjustment of cognitive strategies by leveraging collective wisdom, better adapting to the complex and dynamic learning environment.

Metacognitive evaluation, which assesses the value and effectiveness of cognitive activities, finds external support in social cognitive learning theory's feedback and evaluation mechanisms. Students rely on intrinsic evaluations and refine their metacognitive evaluations based on feedback from social interactions. The introduction of external evaluations renders metacognitive evaluations more objective and comprehensive, facilitating students in accurately perceiving their learning states and outcomes.
3.2. Nurturing Social Cognition: Application of Metacognitive Strategies in Teaching

In practical teaching, integrating metacognitive strategies into the framework of social cognitive learning theory offers an innovative approach to cultivating students' social cognition. Firstly, teachers can stimulate metacognitive awareness by guiding students to reflect on and share their learning processes, fostering a broader social perspective on their cognitive processes through self-observation, self-recording, and interpersonal communication.

Collaborative learning can manifest the incorporation of metacognitive control strategies. When designing tasks, teachers can encourage students to choose and regulate suitable metacognitive strategies, sharing their experiences in collaborative learning. Through student interaction and cooperation, metacognitive control evolves from an individual behavior into a collective activity within the social group. Such social interaction prompts students to select and adjust cognitive strategies more purposefully, gradually cultivating their metacognitive control abilities within a social context.

Social cognitive learning can also optimize metacognitive evaluation. Teachers can design peer and group evaluation mechanisms, enabling students to receive feedback from peers and teachers during social interactions. This facilitates students forming more objective and comprehensive metacognitive evaluations and nurtures their ability to accept and respond to external evaluations. The social cognitive learning theory's evaluation mechanisms provide a broader social context for metacognitive evaluation, enabling students to better adapt to future learning and working environments.

3.3. Enrichment of Social Cognitive Learning Theory: Deep Integration of Metacognitive Strategies

The integration of metacognitive strategies within the framework of social cognitive learning theory enhances students' mastery over cognitive processes and enriches the essence of social cognitive learning. The social cognitive learning theory emphasizes that learning is a social interaction process, and the incorporation of metacognitive strategies enlivens this interaction, making it more nuanced and personalized.

The observational learning principle in social cognitive learning theory harmonizes seamlessly with the metacognitive models in metacognitive strategies. Educators can guide students to observe the metacognitive processes of others while learning, fostering engagement through sharing and discussions. This observational learning approach allows students to intuitively grasp the practical application of metacognitive strategies, facilitating a more effective integration into their learning practices.

The collaboration between cooperative learning in social cognitive learning theory and cooperative metacognitive control in metacognitive strategies creates a synergistic interaction. In collaborative learning, students act as individual cognitive contributors and co-constructors of group metacognitive control. Through collaborative efforts in setting learning goals, choosing strategies, and collectively adjusting cognitive control processes, students enhance their adaptability to the socially interactive learning environment.

The situational dependency in social cognitive learning theory aligns with the cognitive flexibility inherent in metacognitive strategies. In diverse social situations, students must flexibly apply various metacognitive strategies. Through educational practices, educators can guide students to adjust their metacognitive strategies based on situational changes in real learning contexts. Nurturing cognitive flexibility equips students to better navigate the intricate and dynamic social environment.

3.4. Future-Oriented Educational Practice: Collaboration of Metacognitive Strategies and Social Cognitive Learning

The integration of metacognitive strategies and social cognitive learning theory not only introduces novel perspectives to current educational practices but also provides guidance for future educational endeavors. In an increasingly intricate and diverse social milieu, the cultivation of students' metacognitive strategies and social cognitive abilities emerges as an imperative task in education.
Educators should concentrate on eliciting students' metacognitive awareness within instructional design. By guiding students to perceive their own learning processes, educators can gain a deeper understanding of their cognitive needs and offer personalized learning support. This entails addressing individual cognitive processes and fostering awareness of the social environment, allowing students to gain clearer insights into themselves during social interactions.

Furthermore, educators should actively explore the integration of metacognitive strategies into social cognitive learning in their teaching practices. Designing activities such as cooperative learning and group tasks enables educators to guide students in employing metacognitive strategies to manipulate and regulate cognitive processes. This not only enhances individual cognitive control but also promotes collective cognitive control in social interactions, affording students a more enriching cognitive experience.

Lastly, educators should underscore social cognitive elements in evaluation mechanisms. Through the implementation of peer and group evaluations, educators can prompt students to garner feedback from peers and the environment during social interactions, optimizing their metacognitive assessments. This aids students in forming more objective and comprehensive metacognitive evaluations, fostering their ability to accept and respond to external evaluations.

The integration of metacognitive strategies and social cognitive learning theory furnishes a fresh perspective and strategy for educational practice. Through profound reflection and innovative practices, educators can attain more substantial results in cultivating students' metacognitive and social cognitive abilities. This collaborative educational approach assists students in better adapting to future social environments and lays a more comprehensive theoretical and empirical foundation for educational research.

### 3.5. An Example of the Integration of Metacognitive Strategies with Social Cognitive Learning: A Case Study of the Nursing Field

Globally, nursing education is responding to the escalating health challenges, propelling its widespread promotion on an international scale. For professional students in the field, the profound integration of metacognitive strategies and social cognitive learning injects new vigor into nursing education, fostering a more comprehensive development of students' autonomy and social adaptability. Within the clinical practice (internship) setting, nursing students employ metacognitive strategies, notably self-monitoring and self-assessment, as a pivotal mechanism for advancing their clinical cognition and problem-solving capabilities.

The implementation of self-monitoring involves a meticulous focus on individual observational skills and decision-making processes, ensuring that students can accurately record and interpret patient symptoms, signs, and their own perception of clinical issues. Simultaneously, self-assessment requires nursing students to critically examine their knowledge levels, skill mastery, and clinical experiences, ensuring the breadth and depth of medical knowledge align with the specific demands of clinical scenarios. In this context, social cognitive learning theory finds ample manifestation, as students continuously refine their professional knowledge through participation in case discussions and simulated case analyses.

Furthermore, students engage in collaborative group work, collectively formulating nursing plans and providing mutual evaluations within the group, thereby elevating each other's cognitive levels through social interaction. We integrate students into community service projects, like health education activities to foster social adaptability. This allows them to gain deeper understanding of societal needs and gradually immerse themselves in community nursing, fostering closer connections with patients and the community. This profound integration not only attends to individual student development but also underscores the social nature of interaction with others, providing nursing students with a more practical and meaningful learning experience.
4. CHALLENGES: THE ROAD TO INTEGRATION OF METACOGNITIVE STRATEGIES AND SOCIAL COGNITIVE LEARNING THEORY

The fusion of metacognitive strategies and social cognitive learning theory has garnered widespread attention in the field of education. This theoretical integration, however, is not without challenges, but rather accompanied by a series of complexities. From the deep integration of theories to the interdisciplinary integration in teaching practices, and further to the construction of assessment systems and the professional development of teaching staff, the journey of this integration is filled with intricacies. This part will explore these challenges from four aspects: theoretical integration, teaching practices, assessment systems, and the professional development of teaching staff, proposing corresponding solutions.

The theoretical integration of metacognitive strategies and social cognitive learning theory presents a complex challenge. These two theories are distinct in their own right; metacognitive strategies focus on individuals' cognitive processes, whereas social cognitive learning theory emphasizes learning as a social interaction process. Identifying the organic convergence points between them is a critical issue.

Teachers, as the central force in educational practice, face heightened demands for professional development by incorporating these theories into actual teaching practices. This necessitates that teachers possess comprehensive literacy encompassing both metacognitive strategies and the social cognitive learning theory. Moreover, the innovation of the education system confronts challenges, as traditional educational models and assessment systems may not adequately accommodate the integration of these new theories. Therefore, the educational system requires innovative adjustments to provide more support and training resources for teachers, facilitating the adaptation and application of these new theories.

When confronted with novel theoretical integration, students undergo a challenging process of acceptance and adaptation. The entrenched nature of traditional pedagogical models within the academic framework has led students to develop habits associated with specific teaching methodologies and disciplinary delineations. Suddenly confronted with a new theoretical integration, they may experience perplexity and discomfort. This necessitates a transitional phase to enable students to comprehend, accept, and adapt to the novel theories. In this process, the adjustment of cognitive structures and an open-minded approach to new concepts are imperative. Educators are advised to facilitate this transition by offering clear guidance, implementing targeted instructional strategies, and engaging students in interactive activities that foster deep reflection. Providing support to students is critical for helping them overcome the challenges that may arise when integrating new theories.

The integration of metacognitive strategies and social cognitive learning theory poses a more intricate challenge to the educational assessment system. Within this comprehensive framework, evaluating students' development in both metacognitive and social cognitive dimensions requires the consideration of multi-level, multidimensional indicators. To achieve a comprehensive and objective assessment, it is necessary to devise assessment methods tailored to the realities of various vocational colleges, potentially incorporating a combination of quantitative measurements and qualitative analyses. Simultaneously, assessment tools and methodologies must possess the capability to capture and analyze students' multi-level abilities, ensuring the comprehensiveness and accuracy of the evaluation.

5. FUTURE PROSPECTS

Prospective research trajectories will underscore the need for a more profound theoretical understanding and the continual evolution of pedagogical practices. In educational context, an imperative lies in delving into the interactive mechanisms intrinsic to the application of metacognitive strategies and social cognitive learning theory. This entails a detailed exploration of specific instructional methodologies, practices integrating interdisciplinary approaches, and the implementation of longitudinal studies to track student development over an extended period.
Only through comprehensive investigations into these realms can educators enhance their guidance in practical teaching, rendering theoretical integration more efficacious.

The construction of assessment systems will emerge as a pivotal focus for future research endeavors. Conventional assessment methodologies encounter challenges in thoroughly and objectively appraising students' metacognitive and social cognitive development, necessitating the development of a more comprehensive and adaptable assessment framework. This requires innovative approaches to assessment tools and methods, encompassing a variety of assessment modalities, accentuating students' process-oriented advancement, and more authentically showcasing learners' capabilities. The professional development of teaching staff stands out as another crucial avenue for future research. Addressing the challenges associated with cultivating an interdisciplinary teaching cadre proficient in metacognitive strategies and social cognitive learning theory, and formulating pragmatic professional development plans, warrants immediate attention. Subsequent research endeavors can delve deeper into the mechanisms and factors influencing teachers' professional development.

6. CONCLUSION

The integration of metacognitive strategies and social cognitive learning theory embodies a complex and pioneering venture in education. Educators, serving not only as proponents of theory but also as practical pioneers, engage in a multifaceted process. This transformative journey begins with the amalgamation of theoretical frameworks, aiming to synergize metacognitive and social cognitive aspects, facilitating a more holistic understanding of learning processes. As educators experiment with diverse teaching methodologies, evolution unfolds, leading to a profound reshaping of educational paradigms. We translate theoretical frameworks into practical applications, fostering an enriched learning environment. We anticipate that future research endeavors will delve deeper into this integration, probing into nuanced aspects and contributing additional vigor and scholarly reflection to the evolving discourse in education. Within this progression, the cultivation of self-regulated learning abilities stands out as a cornerstone. Recognizing the intricate interplay between metacognitive strategies and social cognitive learning, educators are tasked with guiding students towards autonomous learning. This cultivation is both an ethical responsibility and an inherent prerequisite for fostering the intellectual autonomy and resilience required for individual student development. This integration's anticipated outcome goes beyond mere theoretical enrichment. It is poised to yield deeper insights into the dynamics of cognitive regulation, contributing to the broader discourse on educational psychology. Moreover, this integration is expected to foster innovative pedagogical approaches, positioning itself as a significant driving force in shaping the advancement of educational practices and methodologies. As the research continues, educators are at the forefront, navigating the complexities and contributing substantively to the ever-evolving landscape of education.

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