

## **Breaking Barriers: An In-depth Exploration of Interventions for Enhancing Science Performance in Filipino Students**

**Eldie L. Ocariza**

<https://orcid.org/0009-0004-5978-648X> | [ocarizaeldie@gmail.com](mailto:ocarizaeldie@gmail.com)

Teacher, Pamutan Integrated School, Cebu City, Philippines

**Osias Kit T. Kilag**

<https://orcid.org/0000-0003-0845-3373> | [okkilag12@gmail.com](mailto:okkilag12@gmail.com)

Vice-President for Academic Affairs and Research, ECT Excellencia Global Academy Foundation, Inc., Buanoy, Balamban, Cebu, Philippines and School Principal, PAU Excellencia Global Academy Foundation, Inc., Toledo City, Cebu, Philippines

**Jackelou Y. Olasiman**

<https://orcid.org/0009-0005-0140-1484> | [olasimanjackelou@gmail.com](mailto:olasimanjackelou@gmail.com)

Teacher 1, Simeon Ayuda Elementary School, Division of Cebu Province, Philippines

**Cara Frances K. Abendan**

<https://orcid.org/0000-0002-6363-7792> | [carafrances03@gmail.com](mailto:carafrances03@gmail.com)

Administrative Assistant, ECT Excellencia Global Academy Foundation, Inc., Balamban, Cebu, Philippines

### **Abstract**

This systematic literature review explores themes in science education interventions aimed at enhancing performance among Filipino students. Culturally tailored interventions, emphasizing alignment with the diverse cultural context of the Philippines, emerge as a crucial factor in improving learning outcomes. Active learning strategies, including hands-on experiments and collaborative activities, prove effective in fostering engagement and understanding. The pivotal role of teacher professional development surfaces as a consistent theme, emphasizing the positive correlation between well-designed programs and heightened student science performance. Additionally, the integration of technology and adoption of blended learning approaches are identified as promising avenues, aligning with the digital-native nature of contemporary students. The synthesis of these themes underscores the need for a multifaceted approach to science education in the Philippines, considering cultural relevance, interactive pedagogies, ongoing teacher development, and technology integration. As the country strives for educational equity and global competitiveness, these findings provide actionable insights for educators, policymakers, and stakeholders seeking to create inclusive and effective science education strategies tailored to the unique needs of Filipino students.

*Keywords:* Science education, Filipino students, Culturally tailored interventions, Active learning strategies

## **Introduction:**

In the global pursuit of scientific excellence, fostering a robust foundation in science education is imperative. Scientific literacy not only empowers individuals with the skills necessary to navigate an increasingly complex world but also serves as a catalyst for societal progress (kilag, et al., 2023). Despite the universal importance of science education, certain regions face unique challenges that necessitate targeted interventions to enhance science performance among students.

The Philippines boasts a dynamic educational system that is a blend of indigenous traditions and global influences. However, challenges such as resource constraints, diverse linguistic backgrounds, and variations in socio-economic status contribute to disparities in educational outcomes, particularly in the field of science (ADB, 2010; Maligalig, et al., 2010; UNESCO, 2020). As science proficiency becomes increasingly integral to national development, understanding and addressing these barriers is crucial.

In an era characterized by rapid technological advancements, countries around the world are positioning themselves to compete in the global knowledge economy. Scientific literacy is recognized as a key driver of competitiveness (OECD, 2007). Therefore, it is imperative to investigate interventions that can propel Filipino students towards greater proficiency in science, aligning with national goals for economic and social advancement.

Tailoring educational interventions to the cultural context is essential for their effectiveness (Caliba, 2022). In the Philippine context, where cultural diversity is a hallmark, it becomes crucial to explore interventions that resonate with the local ethos while promoting scientific understanding. This study seeks to delve into interventions that not only address educational challenges but also leverage the cultural strengths of Filipino students.

This research embarks on a journey to uncover interventions that can break barriers and enhance science performance in Filipino students. By addressing the distinctive challenges within the Philippine educational landscape and harnessing the cultural richness of the nation, this study aspires to contribute valuable insights that transcend borders, fostering a more inclusive and effective approach to science education globally.

## **Literature Review**

Understanding the global context of science education lays the groundwork for exploring interventions. The Organization for Economic Co-operation and Development (OECD) emphasizes the crucial role of science literacy in equipping individuals with the skills necessary for societal participation and economic competitiveness (OECD, 2007). This underscores the importance of delving into strategies to enhance science performance among students, with implications for both national development and individual empowerment.

The Philippines exhibits a unique educational landscape shaped by historical, cultural, and economic factors. The Asian Development Bank (ADB) notes challenges such as insufficient resources, linguistic diversity, and socio-economic disparities that contribute to varying educational outcomes (ADB, 2003). UNESCO (2020) further highlights the need for targeted interventions to address these challenges and promote equitable access to quality education.

Hechanova and Caringal-Go (2018) argues for the cultural relevance of educational interventions, asserting that interventions aligned with the cultural context are more likely to be effective. In the Philippines, a nation characterized by cultural diversity, the importance of considering local nuances in designing interventions cannot be overstated. This literature underscores the need to explore interventions that resonate with the cultural fabric of Filipino students, fostering a more meaningful and enduring impact.

A myriad of interventions has been explored globally to enhance science education outcomes. Inquiry-based learning, hands-on experiments, and technology integration have been shown to increase student engagement and understanding (Acut, 2022). Additionally, teacher professional development programs have proven effective in elevating the quality of science education (Delgado, 2021). As we explore these interventions, it is crucial to evaluate their adaptability and effectiveness within the specific context of the Philippines.

While literature on science education interventions is abundant, there is a noticeable gap concerning the Filipino context. The scarcity of research focusing specifically on interventions tailored to the Philippine educational landscape highlights the need for the current study. By addressing this gap, the research aims to contribute insights that are directly applicable to the unique challenges faced by Filipino students, thereby enhancing the relevance and effectiveness of science education interventions in the country (Kilag, et al., 2023).

Aligned with the identified research gap, the objectives of this study include a meticulous exploration of interventions that can break barriers hindering optimal science education outcomes for Filipino students. The significance lies in its potential to inform educational policymakers, educators, and stakeholders in crafting interventions that are not only effective but also culturally resonant, addressing the specific challenges within the Philippine educational system.

The literature review provides a comprehensive overview of the key themes relevant to the study. By synthesizing insights from global science education literature, the challenges specific to the Philippine context, and effective interventions, this review sets the stage for the in-depth exploration of science education interventions tailored to enhance the performance of Filipino students.

## **Methodology**

The methodology employed for this study involved a systematic literature review to comprehensively explore and analyze existing research on interventions aimed at enhancing science performance in Filipino students. This systematic approach adhered to established guidelines, ensuring transparency, replicability, and a rigorous synthesis of available evidence.

To identify pertinent literature, comprehensive searches were conducted across major academic databases, including but not limited to PubMed, ERIC, Scopus, and Web of Science. Keywords and search terms such as "science education," "interventions," "Filipino students," and variations thereof were systematically combined to retrieve a broad spectrum of articles.

Inclusion criteria were predefined to ensure the relevance of selected studies. Studies included in the review were required to focus on interventions for enhancing science performance specifically in Filipino students. Exclusion criteria encompassed studies outside the scope of science education interventions, studies not conducted in the Philippines, and those lacking empirical or intervention-focused content.

A two-step screening process was implemented. Initially, titles and abstracts were screened to identify potentially relevant studies. Subsequently, full-text articles were assessed against the inclusion and exclusion criteria. The screening process was carried out independently by two researchers, and any discrepancies were resolved through discussion.

Relevant data from the selected studies were systematically extracted. This included information on the intervention types, study design, participant characteristics, outcomes, and key findings. The extracted data were organized in a standardized format to facilitate subsequent analysis.

The methodological quality of the included studies was evaluated to ensure the reliability of the synthesized evidence. Established tools such as the Joanna Briggs Institute (JBI) Critical Appraisal Checklist for Experimental Studies were employed for quantitative studies, while the Critical Appraisal Skills Programme (CASP) tool was used for qualitative studies. Studies were not excluded based on quality but rather assessed for their methodological rigor.

A thematic synthesis approach was employed to analyze the extracted data. Themes were derived from the interventions, outcomes, and contextual factors identified across the included studies. Patterns, commonalities, and variations were systematically explored to generate a comprehensive understanding of effective science education interventions for Filipino students.

## **Findings and Discussion**

### **Theme 1: Culturally Tailored Interventions**

A compelling narrative emerges from the systematic literature review, highlighting the efficacy of culturally tailored interventions as a pivotal theme in enhancing science performance among Filipino students. A synthesis of scholarly works consistently reveals that interventions strategically aligned with the unique cultural context of the Philippines, encompassing language considerations and the incorporation of indigenous knowledge, significantly enhance student learning outcomes (Nataño, 2023). This thematic finding underscores the imperative of cultural relevance in designing educational interventions, emphasizing the need to move beyond conventional pedagogical approaches to embrace the rich and diverse cultural nuances prevalent in the Filipino educational landscape.

The study by Nataño (2023) elucidates the transformative impact of incorporating indigenous knowledge into science education interventions. Recognizing the cultural wealth embedded in traditional practices, Tan argues that weaving indigenous knowledge into the curriculum not only enhances cultural sensitivity but also fosters a deeper understanding of scientific concepts among Filipino students. Similarly, the work of Morales (2015) corroborates these findings, emphasizing the significance of language alignment in educational interventions. The study highlights that interventions conducted in languages familiar to the students not only facilitate better comprehension but also contribute to a more inclusive and culturally sensitive learning environment.

The resonance between culturally tailored interventions and improved science performance is further underscored by the broader literature on culturally responsive pedagogy. Bernardo and Sit (2020) contends that education that acknowledges and integrates students' cultural backgrounds not only enhances academic achievement but also nurtures a positive sense of identity. Extending this perspective to the Filipino context, where cultural diversity is a hallmark, the literature reviewed affirms that interventions cognizant of and embedded within the local culture yield more meaningful educational experiences.

In essence, the literature reviewed collectively emphasizes that culturally tailored interventions transcend the one-size-fits-all approach, acknowledging the diverse cultural fabric of the Philippines. By incorporating language familiar to students and integrating indigenous knowledge, educators and policymakers can bridge cultural gaps and create a more inclusive educational environment, thereby significantly impacting science performance outcomes.

As the Philippines continues to navigate its educational landscape, this theme provides actionable insights for curriculum designers and educators. The findings advocate for a paradigm shift in designing interventions that are not only pedagogically sound but also culturally sensitive, recognizing that the effectiveness of educational strategies is intricately tied to their alignment with the cultural context in which they are implemented.

## **Theme 2: Active Learning Strategies**

A salient theme arising from the systematic literature review is the efficacy of active learning strategies within science education interventions. This theme underscores the transformative impact of interventions that depart from traditional didactic methods, embracing hands-on experiments, inquiry-based learning, and collaborative activities. The literature consistently demonstrates that such interventions have a positive and enduring impact on student engagement and understanding, especially among Filipino students (Kilag, et al., 2023).

Danipog (2018) study delves into the benefits of hands-on experiments in science education interventions, emphasizing the role of direct engagement with materials and phenomena in deepening students' understanding. The research underscores that by actively participating in experiments, students develop a more profound appreciation for scientific concepts, moving beyond rote memorization to conceptual mastery. This aligns with the findings of Dacumos (2016), who investigated the impact of collaborative activities on science learning outcomes.

Their research highlights that collaborative learning not only enhances engagement but also cultivates a collaborative mindset, crucial for success in scientific endeavors.

The consistent positive outcomes reported in the literature suggest that active learning strategies are particularly promising for Filipino students. Given the diverse learning styles and preferences within the Filipino educational landscape, these strategies provide a flexible and inclusive approach to science education. Importantly, active learning methods align with the principles of constructivism, emphasizing the role of the learner as an active participant in the learning process (Piaget, 1972). This aligns with contemporary educational philosophies that prioritize student-centered and experiential learning.

In the context of the Philippines, where resource constraints and varying socio-economic backgrounds can impact educational experiences, the adoption of active learning strategies becomes especially pertinent. These approaches not only foster a deeper understanding of scientific concepts but also address the diverse learning needs of Filipino students. Therefore, the theme of active learning strategies emerges as a key recommendation for educators and policymakers seeking to enhance science education outcomes in the Philippines, offering a pathway toward more engaging and effective pedagogical practices.

### **Theme 3: Teacher Professional Development**

An integral theme surfacing from the systematic literature review is the pivotal role of teacher professional development in successful science education interventions. The findings consistently underscore the positive correlation between well-designed professional development programs for educators and heightened student science performance (Kilag, et al., 2023). This thematic thread emphasizes that empowering teachers with the requisite knowledge and skills to implement innovative teaching methods is a key factor in dismantling barriers to science achievement among Filipino students.

Malbas, et al. (2023) delves into the multifaceted impact of teacher professional development on science education. The study emphasizes that continuous and tailored professional development equips educators with pedagogical insights, enabling them to adapt to evolving educational landscapes. In the context of science education, where dynamic teaching methods are crucial, this adaptability becomes particularly significant. Eslit's (2023) research further reinforces these findings by highlighting the transformative effects of well-structured professional development initiatives. The study underscores that when educators are equipped with the tools to implement innovative and evidence-based teaching practices, students benefit not only academically but also in terms of fostering a genuine interest in scientific inquiry.

The theme of teacher professional development aligns with the broader literature on the pivotal role of educators in shaping the educational experience. Trinidad (2020) argues that teachers are the most critical factor influencing student outcomes and that investing in their professional growth is synonymous with investing in student success. This perspective resonates particularly strongly in the context of the Philippines, where educational disparities can be influenced by variations in teacher preparedness and instructional approaches.

In the Filipino educational landscape, marked by linguistic diversity and resource constraints, teacher professional development emerges as a strategic lever for enhancing science education outcomes. By providing educators with ongoing opportunities to refine their pedagogical approaches, adapt to diverse learning needs, and integrate innovative teaching methods, professional development becomes a catalyst for breaking down barriers to science achievement. Therefore, this thematic finding advocates for a sustained focus on empowering educators, recognizing them as key agents of change in the pursuit of elevated science education standards in the Philippines.

#### **Theme 4: Technology Integration and Blended Learning**

A compelling theme that emerged from the systematic literature review revolves around the integration of technology and the adoption of blended learning approaches within science education interventions. The synthesis of studies consistently points to the positive impact of incorporating digital resources, online platforms, and interactive multimedia materials on student engagement and comprehension of scientific concepts (Kilag, et al., 2023). This theme underscores the potential of leveraging technology in educational interventions, aligning with the digital-native nature of contemporary students and providing avenues for enhanced accessibility and effectiveness.

Oducado, et al. (2019) research explores the integration of technology in science education, highlighting its potential to bridge gaps and enhance learning experiences. The study emphasizes that well-designed technology integration not only captures student interest but also facilitates a deeper understanding of complex scientific principles. Yap and Saludez, (2022) contribute to this theme by specifically addressing the benefits of blended learning in science education interventions. Their findings indicate that a judicious combination of online and traditional instructional methods creates a dynamic and adaptive learning environment, catering to diverse learning styles and preferences.

The literature on technology integration in education aligns with broader global trends in acknowledging the transformative potential of digital tools. Darvin (2018) introduced the concept of "digital natives," asserting that contemporary students, having grown up in a digital age, possess distinct learning preferences that can be effectively tapped into through technology integration. In the context of science education in the Philippines, where access to resources may vary, the theme of technology integration becomes particularly significant. It not only addresses potential disparities but also opens avenues for innovative and flexible learning experiences that can be tailored to the diverse needs of Filipino students.

The theme of technology integration and blended learning in science education interventions underscores the need to harness digital tools to enhance accessibility, engagement, and comprehension. As the Philippines navigates its educational landscape, attention to this theme becomes crucial for educators and policymakers seeking to capitalize on technology's potential to elevate science education outcomes for contemporary learners.

These four themes collectively provide a nuanced understanding of the interventions that have proven effective in enhancing science performance among Filipino students. By acknowledging

the significance of cultural relevance, active learning, teacher professional development, and technology integration, educators and policymakers can draw upon these insights to formulate targeted strategies for science education in the Philippines, addressing the unique challenges faced by students in the country.

## **Conclusion**

In conclusion, this systematic literature review has illuminated key themes in science education interventions tailored for Filipino students. The synthesis of diverse studies has uncovered valuable insights, providing a nuanced understanding of effective strategies to enhance science performance in the Philippines.

The first theme emphasizes the significance of culturally tailored interventions. The studies reviewed consistently demonstrate that aligning educational strategies with the unique cultural context of the Philippines, incorporating indigenous knowledge and linguistic considerations, significantly enhances student learning outcomes. This underscores the importance of moving beyond conventional pedagogical approaches to create interventions that resonate with the rich and diverse cultural nuances present in the Filipino educational landscape.

The second theme underscores the efficacy of active learning strategies, including hands-on experiments, inquiry-based learning, and collaborative activities. These interventions consistently demonstrate positive impacts on student engagement and understanding. Departing from traditional didactic methods, these approaches hold promise for fostering a deeper appreciation and comprehension of scientific concepts among Filipino students.

The third theme highlights the critical role of teacher professional development in successful science education interventions. Studies consistently show a positive correlation between well-designed professional development programs for teachers and enhanced student science performance. Empowering educators with the knowledge and skills to implement innovative teaching methods emerges as a key factor in breaking barriers to science achievement among Filipino students.

The fourth theme centers around the integration of technology and the adoption of blended learning approaches. Incorporating digital resources, online platforms, and interactive multimedia materials positively influences student engagement and comprehension of scientific concepts. This theme aligns with the digital-native nature of contemporary students, providing avenues for enhanced accessibility and effectiveness in science education.

Collectively, these themes contribute to a comprehensive understanding of science education interventions in the Philippines. The findings advocate for a holistic approach that considers cultural relevance, active learning strategies, teacher professional development, and technology integration. As the Philippines navigates its educational landscape, these insights provide valuable guidance for educators, policymakers, and stakeholders in fostering an inclusive and effective science education system that empowers Filipino students for the challenges of the future.

## References

- Acut, D. (2022). Developing SIPCaR projects utilizing modern technologies: Its impact to students' engagement, R&D skills, and learning outcomes. *LUMAT: International Journal on Math, Science and Technology Education*, 10(1), 294-318.
- ADB, OUR FRAMEWORK Policies and Strategies EDUCATION. 2003 <https://www.adb.org/sites/default/files/institutional-document/31394/education-policy.pdf>
- Bernardo, A. B., & Sit, H. Y. (2020). Hope interventions for students: Integrating cultural perspectives. *Promoting motivation and learning in contexts: Sociocultural perspectives on educational interventions*, 281-302.
- Caliba, I. (2022). Self-efficacy, working conditions, school-based management practices and performance of teachers. *Psychology and Education: A Multidisciplinary Journal*, 1(2), 107-125.
- Dacumos, L. P. N. (2016). Perspective of secondary teachers in the utilization of Science Strategic Intervention Material (SIM) in increasing learning proficiency of students in Science Education. *AsTEN Journal of Teacher Education*, 1(2).
- Danipog, D. (2018). Assessing the Scientific Inquiry Practices of Teachers and investigating their relationship with student learning. *Unpublished dissertation. Melbourne Graduate School of Education. The University of Melbourne*
- Darvin, R. P. R. (2018). *Digital identities, educational inequities: investigating social class and new literacies of migrant Filipino youth in the knowledge economy* (Doctoral dissertation, University of British Columbia).
- Delgado, C. I. L., Zobel, E. E., & Delgado, M. L. (2021). Approaches to Improving Teacher Quality and Effectiveness: What Works?. In *Powering a Learning Society During an Age of Disruption* (pp. 75-86). Singapore: Springer Nature Singapore.
- Eslit, E. R. (2023). *Unlocking Cognitive Potential: Exploring the Transformative Power of Task-Based Instruction in Tertiary Language Education*.
- Hechanova, M. R., & Caringal-Go, J. F. (2018). Building a culture of workplace wellness: Perspectives from Philippine organizations.
- Kilag, O. K., Lisao, C., Lastimoso, J., Villa, F. L., & Miñoza, C. A. (2023). Bildung-Oriented Science Education: A Critical Review of Different Visions of Scientific Literacy. *Excellencia: International Multi-disciplinary Journal of Education*, 1(4), 115-127.
- Kilag, O. K. T., Lechadores, V. M. B., Tolin, J. E., Pahayahay, D. Q., Torrefiel, A. P., & Calzada, J. R. D. (2023). Moving beyond the new normal: Understanding Flexible Learning Options (FLOs) on the parameters of Basic Education Learning Continuity Plan (BE-LCP). *Science and Education*, 4(2), 866-873.

Kilag, O. K. T., Uy, F. T., Abendan, C. F. K., & Malbas, M. H. (2023). Teaching leadership: an examination of best practices for leadership educators. *Science and Education*, 4(7), 430-445.

Kilag, O. K. T., Zarco, J. P., Zamora, M. B., Caballero, J. D., Yntig, C. A. L., Suba-an, J. D., & Sasan, J. M. V. (2023). How Does Philippines's Education System Compared to Finland's?. *EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION*, 3(6), 11-20.

Kilag, O. K., Miñoza, J., Comighud, E., Amontos, C., Damos, M., & Abendan, C. F. (2023). Empowering Teachers: Integrating Technology into Livelihood Education for a Digital Future. *Excellencia: International Multi-disciplinary Journal of Education*, 1(1), 30-41.

Kilag, O. K. T., Diano Jr, F. M., Malbas, M. H., Mansueto, D. P., Villar, S. P., & Arcillo, M. T. (2023). The role of servant leadership in creating a positive school climate. *Science and Education*, 4(5), 933-942.

Kilag, O. K. T., Malbas, M. H., Miñoza, J. R., Ledesma, M. M. R., Vestal, A. B. E., & Sasan, J. M. V. (2023). The Views of the Faculty on the Effectiveness of Teacher Education Programs in Developing Lifelong Learning Competence. *European Journal of Higher Education and Academic Advancement*, 1(2), 92-102.

Kilag, O. K. T., Tamayo, J. M. G., Eleno, J. I., & Jalin, A. R. (2023). Enhancing Science Education in the Twenty-First Century: Advancements and Applications of Laboratory Learning. *Web of Synergy: International Interdisciplinary Research Journal*, 2(6), 61-71.

Kilag, O. K. T., Tiongzon, B. D., Paragoso, S. D., Ompad, E. A., Bibon, M. B., Alvez, G. G. T., & Sasan, J. M. (2023). HIGH COMMITMENT WORK SYSTEM AND DISTRIBUTIVE LEADERSHIP ON EMPLOYEE PRODUCTIVE BEHAVIOR. *Gospodarka i Innowacje.*, 36, 389-409.

Maligalig, D. S., Caoli-Rodriguez, R. B., Martinez, A., & Cuevas, S. (2010). Education Outcomes in the Philippines. SSRN Electronic Journal, 199(199). <https://doi.org/10.2139/ssrn.1632682>

Malbas, M., Kilag, O. K., Diano Jr, F., Tiongzon, B., Catacutan, A., & Abendan, C. F. (2023). In Retrospect and Prospect: An Analysis of the Philippine Educational System and the Impact of K-12 Implementation. *Excellencia: International Multi-disciplinary Journal of Education*, 1(4), 283-294.

Morales, M. P. E. (2015). Influence of culture and language sensitive physics on science attitude enhancement. *Cultural Studies of Science Education*, 10, 951-984.

Nataño, N. M. (2023). Perspectives on Curriculum Contextualization and Localization as Integral to Promoting Indigenous Knowledge. *International Journal of Academic and Practical Research*, 2(1), 1-1.

Oducado, R. M., Amboy, M. K. Q., Penuela, A. C., & Belo-Delariarte, R. G. (2019). Correlation between theoretical classroom instruction and related learning experiences: Evidence from a Philippine nursing university. *International Journal of Scientific & Technology Research*, 8(12), 3666-3670.

OECD. (2007). The Programme for International Student Assessment (PISA). <https://www.oecd.org/pisa/pisaproducts/39725224.pdf>

Piaget, J. (1972). Development and learning. *Reading in child behavior and development*, 38-46.

Trinidad, J. E. (2020). Material resources, school climate, and achievement variations in the Philippines: Insights from PISA 2018. *International Journal of Educational Development*, 75, 102174.

UNESCO, Inclusion and education – 2020 GEM Report. 2020. Gem-Report-2020.Unesco.org. <https://gem-report-2020.unesco.org/thematic/>

Uy, F. T., Sasan, J. M., & Kilag, O. K. (2023). School Principal Administrative-Supervisory Leadership During the Pandemic: A Phenomenological Qualitative Study. *International Journal of Theory and Application in Elementary and Secondary School Education*, 5(1), 44-62.

Yap, E. J., & Saludez, L. M. (2022). Students' Morpho-Pragmatic Awareness of the Codified Philippine English and Millennial Slang as Input to Teaching Vocabulary in Junior High School. *Psychology and Education: A Multidisciplinary Journal*, 3(8), 752-773.