



Collaborating Glitches of Students and Classroom Diplomatic Handling of Teachers in Public Elementary Schools

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Authors' contributions

This work was carried out in collaboration between both authors. Both authors read and approved the final manuscript.

Article Information

DOI: <https://doi.org/10.9734/ajess/2024/v50i121708>

Open Peer Review History:

This journal follows the Advanced Open Peer Review policy. Identity of the Reviewers, Editor(s) and additional Reviewers, peer review comments, different versions of the manuscript, comments of the editors, etc are available here: <https://www.sdiarticle5.com/review-history/128221>

Original Research Article

Received: 14/10/2024

Accepted: 17/12/2024

Published: 21/12/2024

ABSTRACT

This study aimed to determine the extent of collaborating glitches of students and classroom diplomatic handling of teachers in the classroom. Additionally, to determine the significant relationship between collaborating glitches of students and classroom diplomatic handling of teachers in the classroom in public elementary schools in Panabo District, Division of Davao del Norte. This study employed a descriptive-correlation method with 138 public elementary school teachers as respondents. Data were gathered using a self-made questionnaire directly administered to them. Universal sampling was used, making all population members part of the study. The statistical tools used were mean and product moment correlation or Pearson r. The foregoing conclusions show that the level of collaborating glitches in students was high and oftentimes manifested. Moreover, the level of classroom diplomatic handling of teachers was high

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Cite as: Siton, Rovelyn A., and Josephine B. Baguio. 2024. "Collaborating Glitches of Students and Classroom Diplomatic Handling of Teachers in Public Elementary Schools". *Asian Journal of Education and Social Studies* 50 (12):400-410. <https://doi.org/10.9734/ajess/2024/v50i121708>.

and oftentimes manifested. There was no significant relationship between the collaborating glitches of students and the classroom diplomatic handling of teachers. Also, there was a significant influence between collaborating glitches of students and the classroom diplomatic handling of teachers. It is recommended that the teachers may continue to improve the collaborating glitches of students and ensure diplomatic handling by teachers in the classroom to create an environment conducive to learning and personal growth. Collaboration among students often faces challenges such as differing opinions, varying work spaces, or misunderstandings, which can hinder group dynamics and productivity.

Keywords: Collaborating glitches; classroom diplomatic handling; public elementary schools; Philippines.

1. INTRODUCTION

The concept of collaboration glitches among students refers to the challenges and disruptions that naturally arise when students work together, particularly in diverse or dynamic groups. These glitches can take various forms, such as misunderstandings, conflicts, and communication breakdowns, often stemming from differing personalities, learning styles, or personal backgrounds (Baker, 2015). While collaboration has the potential to enhance learning and build teamwork skills, these occasional challenges can hinder the effectiveness of group work if not managed constructively (Michaelsen et al., 2023).

Teachers play a vital role in diplomatically addressing these challenges in the classroom. By fostering a supportive and inclusive environment, teachers can guide students in navigating conflicts and misunderstandings with empathy and respect. This diplomatic approach may involve mediating disputes, encouraging open dialogue, and modeling effective conflict-resolution strategies (Bonaparte, 2024). Teachers can also set clear expectations for collaborative work, ensuring that every student understands the value of teamwork and feels comfortable contributing. Effective management of these glitches requires patience, fairness, and strong communication skills, enabling teachers to transform potential conflicts into valuable learning opportunities. Through this balanced approach, teachers support both the academic and social development of their students, helping them become more adaptable, respectful, and resilient collaborators (Tharp, 2018).

In the context of the Philippines, glitches among students in collaborative classroom settings are common and often unavoidable. Working in groups brings together individuals with varying viewpoints, skill levels, personalities, and

communication styles, which can lead to challenges such as some students dominating discussions, others being reluctant to participate, and misunderstandings about how tasks should be completed (Harris & Sherblom, 2018). Additionally, differences in work ethic, expectations, and personal conflicts may lead to frustration, making students feel misunderstood or unappreciated. While these challenges can be difficult, they are natural in collaborative environments and can offer valuable opportunities for growth and learning when approached constructively (Gillies, 2019).

Teachers play a crucial role in managing these collaborative challenges with diplomacy, tact, and empathy. By acting as facilitators, teachers can create a structured yet flexible environment where students feel safe to express their concerns and resolve conflicts respectfully. Diplomatically handling these situations may involve stepping in to mediate when disagreements arise, setting communication ground rules, and teaching conflict-resolution techniques that students can apply in group settings (Snow & Cull, 2020). Teachers can also promote a culture of accountability, encouraging each student to contribute fairly while respecting their peers' ideas and efforts. By remaining calm and impartial, teachers model effective communication and problem-solving skills, helping students learn to manage interpersonal challenges constructively. This balanced approach helps students develop essential skills for successful collaboration and fosters a classroom culture that values teamwork, mutual respect, and resilience in the face of challenges (Kumar et al., 2015).

In collaborative learning, glitches among students often reflect the complexities of bringing together individuals with diverse backgrounds, perspectives, and abilities. These issues might manifest as unequal participation, with some students contributing more while others remain

passive, or as differing opinions that can lead to heated debates or misunderstandings (Baker, 2015). Additionally, varying levels of commitment can frustrate group members, especially when some prioritize the project more than others. These glitches can create tension and disrupt the learning process if left unchecked. However, they also provide critical opportunities for students to develop valuable interpersonal skills, such as compromise, empathy, and active listening, which are integral to effective teamwork (Englund & Graham, 2019).

Teachers play a crucial role in navigating these collaborative glitches with diplomatic skill, ensuring that conflicts become learning moments rather than obstacles. As supportive guides, teachers help students develop strategies to manage disputes independently, promoting a sense of responsibility and respect within the group. This may involve establishing clear communication guidelines from the outset, encouraging constructive expression, and fostering an inclusive environment where every voice is valued. Teachers might also intervene strategically when tensions escalate, using mediation techniques to help students find common ground without taking sides or imposing solutions (Buinwi et al., 2024). By consistently encouraging students and modeling respectful dialogue, teachers equip them with the tools needed to resolve conflicts on their own, turning collaborative glitches into valuable lessons in resilience and cooperation. By maintaining a diplomatic approach, teachers create a classroom environment where students feel safe to face and overcome challenges together, ultimately building a more cohesive and supportive learning community (Jefferson & Anderson, 2017).

Given the above, the researcher recognizes the importance of examining the role of collaborating glitches among students and the diplomatic handling of these challenges by teachers. This study aims to assess the significance of these factors in public elementary schools and their broader impact on the community. By preparing students to work through conflicts and navigate complex social dynamics, teachers are equipping future citizens with the skills necessary to thrive in diverse, interconnected communities. Learning to collaborate effectively despite differences is a foundational skill that students will carry into their personal and professional lives, where teamwork, empathy, and adaptability are highly valued.

1.1 Research Objectives

The primary objective of this study is to assess the extent of collaborating glitches experienced by students in public elementary schools, particularly in relation to challenges such as family problems, examination stress, financial difficulties, and relationship issues. Additionally, it aims to evaluate teachers' diplomatic classroom handling strategies, including positive self-talk, active exercises, maintaining healthy lifestyle habits, and engaging with students. Furthermore, the study sought to determine whether a significant relationship exists between students' collaborating glitches and teachers' classroom diplomatic handling approaches. Finally, it examines how students' collaborating glitches influence the overall effectiveness of teachers' diplomatic classroom handling strategies providing insights into creating a more conducive learning environment.

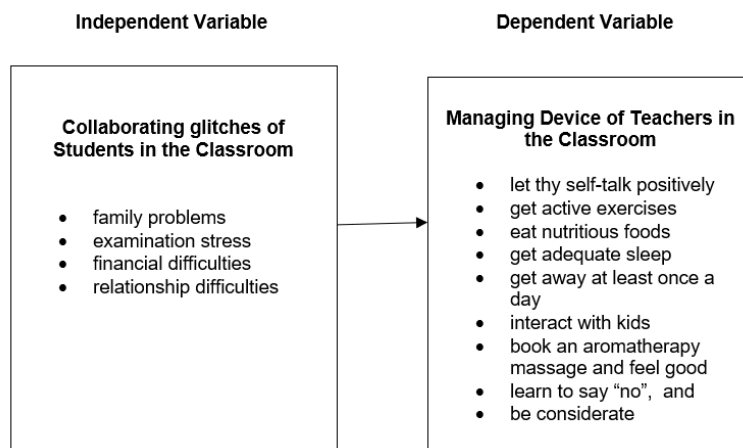


Fig. 1. Conceptual framework of the study

1.2 Research Hypothesis

The study was tested using the following null hypotheses: first, there is no significant relationship between students' collaborating glitches and teachers' classroom diplomatic handling strategies. Second, students' collaborating glitches do not significantly influence the effectiveness of teachers' diplomatic classroom handling strategies. These hypotheses were formulated to examine the potential connection between the challenges students face in the classroom and the strategies teachers use to manage and address those challenges, ultimately aiming to understand their impact on the overall classroom environment.

2. METHODOLOGY

2.1 Research Design

This study employed a non-experimental quantitative design using the correlation method. This design is appropriate for investigating the current state of a phenomenon without manipulating variables. In correlation research, the goal is to determine the strength and nature of the relationship between two or more quantifiable variables (Pregoner & Baguio, 2024).

The correlation method assesses the degree and direction of the relationship between variables, often employing statistical tools such as Pearson's correlation coefficient. A positive correlation suggests that as one variable increases, the other also increases, while a negative correlation indicates that as one variable increases, the other decreases. However, it is important to note that correlation does not imply causation; it simply indicates that a relationship exists between the variables without establishing a cause-and-effect link. For instance, the researcher may use a non-experimental quantitative design with the correlation method to study the relationship between students' study time and academic performance. While the approach can reveal patterns or associations between the variables, it does not confirm that more study time directly leads to better academic performance. Instead, it highlights that the two variables are related in some way (Pregoner, 2024).

The correlational design was used to collect quantitative data regarding the phenomenon under study. A well-structured questionnaire was

designed to gather this data for the target respondents. The focus of the study is to examine the extent of collaborating glitches among students in the classroom and the diplomatic handling of these challenges by teachers in public elementary schools. The non-experimental quantitative design utilizing the correlation method allows the researcher to explore the relationship between these variables as they naturally occur without intervention.

2.2 Research Respondents

The respondents of this study were 138 teachers from public elementary schools, each with at least three years of teaching experience. The study was conducted during the 2021-2022 school year. The researcher employed a universal sampling technique, meaning that the entire population of teachers within the study's scope was considered as potential respondents. This approach ensured that all eligible teachers were included in the study, providing a comprehensive representation of the target group.

2.3 Research Instrument

The data for this study were collected using one self-made questionnaire, which was developed with the guidance of the thesis adviser and reviewed by three additional validators. The validators were experts in the fields of education, research, and psychometrics, who provided feedback on the content for relevance and clarity. Their input helped refine the questionnaire to ensure it was appropriate for the study's objectives.

The questionnaire was divided into two sections. Questionnaire-I focused on the extent of collaborating glitches among students in the classroom, while Questionnaire-II addressed the classroom diplomatic handling strategies employed by teachers. Each section consisted of 5 items, making a total of 65 items across both sections. Pilot testing was conducted at a separate school within the Sta. Ana Elementary School District, which provided a mean Cronbach's alpha rating of 0.718, indicating acceptable reliability for the instruments used. To assess the responses, a Likert scale was employed for both Questionnaire-I and Questionnaire-II. This scale was used to measure the degree of collaborating glitches among students and the teachers' diplomatic handling in the classroom.

2.4 Data Gathering Procedure

The data for this study were gathered through a series of organized procedures. First, a letter of permission was secured to conduct the research on collaborating glitches among students and the diplomatic handling of these challenges by teachers in public elementary schools. The letter was signed and granted by the Dean of Graduate Studies at Rizal Memorial Colleges, the research adviser, and the school principal, with additional approvals from moderators or teachers in charge. To ensure clarity and prevent any administrative issues, adequate and clear copies of the letter were distributed.

The researcher personally administered the questionnaire to the study's respondents, encouraging them to answer the questions honestly to ensure the collection of valid and reliable data. After the questionnaires were completed, the results were collated, tabulated, and subjected to statistical treatment. The data were then analyzed and interpreted in alignment with the objectives of the study.

2.5 Data Analysis

The gathered data were classified, analyzed, and interpreted using various statistical tools to ensure a comprehensive understanding of the relationships and influences between the variables. The mean was used to determine the extent of collaborating glitches among students in the classroom and the classroom diplomatic handling of teachers in public elementary schools. To assess the significant relationship between these two variables, Pearson Product Moment Correlation (Pearson r) was applied. This tool helped in measuring the degree of relationship between the extent of collaborating glitches among students and classroom diplomatic handling of teachers. Finally, regression analysis was used to determine the significant influence of the collaborating glitches on the classroom diplomatic handling of teachers. These statistical methods collectively

provided valuable insights into the dynamics of classroom collaboration and teacher responses, allowing for a deeper understanding of the study's objectives.

3. RESULTS AND DISCUSSION

3.1 Extent of Collaborating Glitches among Students in the Classroom

Table 1 presents the extent of collaborating glitches among students in the classroom across four domains. The highest mean was observed in examination stress (4.20), followed closely by financial difficulties (4.18) and relationship difficulties (4.18), all rated as high. Family problems received a mean score of 3.22, which also falls under the high category. The overall mean of 3.95 indicates a high level of collaborating glitches among students, highlighting that issues such as examination stress, financial difficulties, and relationship difficulties are significant factors affecting students in the classroom. While family problems were ranked slightly lower, they still contribute to the overall high level of collaborating glitches. This suggests that while the majority of students experience a range of challenges, focused attention and support systems are necessary to address these issues and mitigate their impact on the students' classroom experiences.

This finding is consistent with the study of Le et al. (2018), which emphasized that high levels of collaborating glitches among students significantly affect their behavior and performance in the classroom. Their research highlighted that these personal issues often result in emotional and psychological strain, which in turn disrupts the students' ability to focus and participate fully in the learning process. These findings suggest the need for schools to provide support systems aimed at addressing students' personal difficulties, which may ultimately improve their academic and behavioral outcomes.

Table 1. Extent of collaborating glitches among students in the classroom

No.	Domains	Mean	Descriptive Equivalent
1.	family problems	3.22	High
2.	examination stress	4.20	High
3.	financial difficulties	4.18	High
4.	relationship difficulties	4.18	High
Overall Mean		3.95	High

Legend: 4.20-5.00-Very High; 4.19-3.40-High; 3.39-2.60-Moderate; 2.59-1.80-Low; 1.79-1.00-Very Low

Moreover, the finding aligns with the study of Osher et al. (2021), which found that external factors, including family dynamics and financial stress, play a pivotal role in shaping students' classroom experiences. They argued that these challenges often lead to disengagement, behavioral problems, and lower academic performance. Their study suggested that schools need to implement comprehensive support services, including counseling and stress management programs, to help students cope with these external stressors.

3.2 Extent of Classroom Diplomatic Handling of Teachers

Table 2 illustrates the extent of classroom diplomatic handling by teachers across nine domains. The highest mean was observed for the item "let thy self-talk positively" (3.63), which was rated as high. Other items such as "eat nutritious foods" (3.48), "get adequate sleep" (3.48), and "be considerate" (3.49) also received high ratings, with means ranging from 3.48 to 3.63. These items suggest that teachers tend to manage their well-being effectively in terms of positive self-talk, proper nutrition, sleep, and consideration towards others. Several items, including "get away at least once a day" (3.25) and "book an aromatherapy massage and feel good" (3.25), were rated as moderate, with means between 3.25 and 3.39. These ratings indicate that teachers occasionally engage in these activities but may not prioritize them consistently. However, the items "learn to say 'no'" (2.49) and "get active exercises" (1.42) and received the lowest scores, rated as low. These low ratings highlight areas where teachers may struggle to incorporate self-care practices,

particularly in maintaining physical activity and setting boundaries.

The overall mean of 2.97 suggests that teachers generally demonstrate a moderate level of classroom diplomatic handling. While there are some positive aspects of teachers' strategies for stress management and well-being, there is clear room for improvement. The moderate rating reflects a need for teachers to enhance their self-care practices and stress management strategies to foster a more consistent and effective diplomatic handling approach in the classroom.

This finding coincides with the study of Nghia et al. (2020), which observed that while teachers are generally able to apply diplomatic strategies in managing classroom behavior, there are inconsistencies in their approach depending on the situation and available resources. Their research highlighted the challenges teachers face in maintaining consistent diplomatic handling without sufficient support or training, which can lead to varying levels of success in classroom management.

Similarly, the finding aligns with the study of Myers and Rivero (2019), which emphasized the importance of teacher training and professional development in enhancing diplomatic handling in classrooms. They found that teachers who received ongoing support and training in emotional intelligence and conflict resolution were better equipped to maintain a balanced and diplomatic approach in managing student behavior. Their study suggests that with the right tools and resources, teachers can improve their diplomatic handling skills, leading to a more positive and effective classroom environment.

Table 2. Extent of classroom diplomatic handling of teachers

No.	Domains	Mean	Descriptive Equivalent
1.	let thy self-talk positively	3.63	High
2.	get active exercises	1.42	Low
3.	eat nutritious foods	3.48	High
4.	get adequate sleep	3.48	High
5.	get away at least once a day	3.25	Moderate
6.	interact with kids	2.49	Low
7.	book an aromatherapy massage and feel good	3.25	Moderate
8.	learn to say "no",	2.49	Low
9.	be considerate	3.49	High
Overall Mean		2.97	Moderate

Legend: 4.20-5.00-Very High; 4.19-3.40-High, 3.39-2.60-Moderate; 2.59-1.80-Low;1.79-1.00-Very Low

Table 3. Significant relationship between the collaborating glitches among students and classroom diplomatic handling of teachers

Independent Variable	Dependent Variable	p-value	Decision
Interactive Problem among Students in the Classroom	classroom diplomatic handling		
Family problems	letting thy self-talk positively getting active exercises eating nutritious foods getting adequate sleep get away at least once a day interacting or chat with kids booking an aromatherapy massage and feel good learning to say “no” being considerate	0.00	Reject Ho
Examination stress	letting thy self-talk positively getting active exercises eating nutritious foods getting adequate sleep get away at least once a day interacting or chat with kids booking an aromatherapy massage and feel good learning to say “no” being considerate	0.00	Reject Ho
Financial difficulties	letting thy self-talk positively getting active exercises eating nutritious foods getting adequate sleep get away at least once a day interacting or chat with kids booking an aromatherapy massage and feel good learning to say “no” being considerate	0.00	Reject Ho
Relationship difficulties	letting thy self-talk positively getting active exercises eating nutritious foods getting adequate sleep get away at least once a day interacting or chat with kids booking an aromatherapy massage and feel good learning to say “no” being considerate	0.00	Reject Ho
Overall		0.00	Reject Ho

3.3 Significant Relationship Between the Collaborating Glitches among Students and Classroom Diplomatic Handling of Teachers

Table 3 shows that the overall relationship between the collaborating glitches among students and the classroom diplomatic handling of teachers is statistically significant, with a p-

value of 0.00. This result leads to the rejection of the null hypothesis (Ho), indicating that there is a significant relationship between the extent of collaborating glitches among students and the classroom diplomatic handling of teachers. In other words, the challenges students face in the classroom are meaningfully linked to how teachers manage their well-being and classroom dynamics.

Table 4. Significant influence of collaborating glitches of students on the classroom diplomatic handling of teachers

Model	Sum of Squares	Degrees of Freedom	Mean Square	F	Sig
Regression	56.400	3	57.600	4.144	0.01
Residual Total	501.265	135	12.6056		
	543.065	138			
Collaborating Glitches among Students in the Classroom					
Classroom Diplomatic Handling (Indicators)		B	β	t	Sig.
Family problems	letting thy self-talk positively				
	getting active exercises				
	eating nutritious foods				
	getting adequate sleep				
	get away at least once a day				
	interacting or chat with kids	-0.077	-0.058	-0.505	.613
	booking an aromatherapy massage and feel good				
	learning to say “no”				
Examination stress	being considerate				
	letting thy self-talk positively				
	getting active exercises				
	eating nutritious foods				
	getting adequate sleep				
	get away at least once a day	.016	.014	.127	.897
	interacting or chat with kids				
	booking an aromatherapy massage and feel good				
Financial difficulties	learning to say “no”				
	being considerate				
	letting thy self-talk positively				
	getting active exercises				
	eating nutritious foods				
	getting adequate sleep				
	get away at least once a day				
	interacting or chat with kids	-.219	-.207	-1.809	.073
Relationship difficulties	booking an aromatherapy massage and feel good				
	learning to say “no”				
	being considerate				
	letting thy self-talk positively				
	getting active exercises				
	eating nutritious foods				
	getting adequate sleep				
	get away at least once a day	.165	.188	1.572	.109
interacting or chat with kids					
booking an aromatherapy massage and feel good					
learning to say “no”					
being considerate					
R	.271				0.148
R ²	.073				
F	4.144				
p	.010				

This finding corroborates with the study of Ozen and Yıldırım (2020), which found that the challenges students face in the classroom, such as stress and personal difficulties, directly influence how teachers manage classroom dynamics. Their research showed that when

students experience significant personal issues, teachers' diplomatic approaches, such as communication, patience, and emotional regulation, are often tested, and the effectiveness of these strategies can impact overall classroom harmony.

Furthermore, the finding is consistent with the study of Burde et al. (2017), which emphasized the critical link between student challenges and teacher responses. They observed that teachers who are aware of the external stressors impacting students are more likely to use diplomatic handling techniques to mitigate disruptions and foster a supportive learning environment. Their study highlighted that an understanding of student difficulties allows teachers to adopt more empathetic and effective strategies, reinforcing the connection between student issues and teacher-handling strategies in the classroom.

3.4 Significant Influence of Collaborating Glitches of Students on the Classroom Diplomatic Handling of Teachers

Table 4 presents the results of the regression analysis that examines the significant influence of the domains of collaborating glitches among students on the classroom diplomatic handling of teachers. The regression sum of squares is 56.400, and the residual sum of squares is 501.265, giving a total sum of squares of 543.065. The degrees of freedom for the regression model is 3, while the residual has 135 degrees of freedom, resulting in a mean square of 57.600 for regression and 12.6056 for residuals. The F-value is 4.144, with a significance value of 0.01. Since the p-value is less than the significance level of 0.05, it means that there is a statistically significant influence of the domains of collaborating glitches among students on the classroom diplomatic handling of teachers.

This finding validates the theory of Bandura's Social Learning Theory (1977), which emphasizes the role of observational learning and modeling in the development of behavior. Bandura argued that individuals learn behaviors by observing others, especially role models, and this includes teachers' responses to student challenges. The significant influence of collaborating glitches suggests that teachers' behavior in managing classroom difficulties, such as emotional or social challenges, can affect how students learn to cope with similar issues.

Moreover, the finding reinforces Erikson's Psychosocial Development Theory (1950), which highlights the importance of social interactions in an individual's psychological development. According to Erikson, each stage of life is marked by different challenges that require resolution for healthy psychological growth. In the context of students facing collaborating glitches, such as family issues or financial difficulties, teachers' diplomatic handling of these challenges plays a vital role in supporting students' development. The ability of teachers to manage these issues effectively can influence students' emotional well-being and overall development, reinforcing Erikson's theory that external support during difficult periods can promote positive psychosocial outcomes.

Additionally, the finding affirms Vygotsky's Sociocultural Theory (1978), which emphasizes the role of social interactions and cultural context in learning. Vygotsky proposed that cognitive development is heavily influenced by social interactions within a cultural setting, and teachers play a crucial role as facilitators in this process. The significant relationship between students' collaborating glitches and teachers' diplomatic handling suggests that the support and guidance provided by teachers in navigating students' personal and academic challenges can enhance their learning experiences and promote more effective problem-solving strategies. This aligns with Vygotsky's theory that learning occurs in a social context and is deeply shaped by the interactions between students and their teachers.

4. CONCLUSIONS

Based on the foregoing findings, the following conclusions are drawn: The level of collaborating glitches among students in public elementary schools, particularly in terms of family problems, examination stress, financial difficulties, and relationship issues, is high and oftentimes manifested by the students. Additionally, the level of classroom diplomatic handling by teachers in these schools, specifically in terms of self-talk, engaging in physical activity, eating nutritious foods, getting adequate sleep, taking breaks, interacting with children, booking aromatherapy massages, feeling good, learning to say "no," and being considerate, is moderate and sometimes manifested by the teachers. Furthermore, a significant relationship exists between the level of collaborating glitches among students and the classroom diplomatic handling of teachers. The domains of collaborating

glitches among students significantly influence the classroom diplomatic handling of teachers in public elementary schools.

5. RECOMMENDATIONS

Based on the conclusions of the study, the following recommendations are proposed. First, school heads may address the collaborating glitches among students, particularly those related to family problems, examination stress, financial difficulties, and relationship issues. Special attention may be given to preventing family-related issues, such as drug addiction, and improving communication among family members. Counselors may provide support for students dealing with stress and personal challenges. Second, teachers may enhance their classroom diplomatic handling by focusing on self-care practices. This includes engaging in positive self-talk, physical activity, proper nutrition, adequate sleep, and taking breaks when necessary. Teachers may prioritize mental and physical health by dedicating at least one hour a day to exercise, practicing positive self-talk, and setting healthy boundaries. Third, school administrators and teachers may work together to improve collaboration, particularly in areas where lower performance was noted, such as ensuring timely submission of grades. Systems may be established to allow teachers who miss deadlines to correct their mistakes. Lastly, school heads may regularly monitor both collaborating glitches among students and teachers' classroom diplomatic handling. This will help identify potential issues, such as depression or anxiety, and ensure timely interventions are made to promote a positive learning environment.

CONSENT

This quantitative study followed stringent ethical standards to protect the privacy and confidentiality of all participants. Prior to data collection, informed consent was obtained from all respondents, who were provided with a detailed explanation of the study's goals and the measures in place to ensure their confidentiality. To maintain anonymity, no personal identifying information was gathered, and each participant was assigned a unique identification code for data analysis purposes. All collected data were securely stored on encrypted servers, with access restricted to the research team. The results were presented in aggregated form to prevent any individual responses from being traced back to specific participants. Additionally,

statistical analyses were conducted in a way that further protected respondent anonymity, ensuring their privacy was maintained throughout the entire research process.

DISCLAIMER (ARTIFICIAL INTELLIGENCE)

The author(s) hereby declare that generative AI technologies have been used during the writing and editing of this manuscript. The details of the AI usage are as follows:

1. **Grammarly:** Used for grammar and spell-checking, as well as suggestions for improving sentence structure and overall clarity.
2. **Quillbot:** Employed for paraphrasing and refining sentence flow to enhance readability and coherence.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

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