

Effect of the Online Global Classroom Collaboration and Students' Proficiency in Southeast Asian Arts

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Abstract: This study aims to examine the effect of online global collaboration on the learning outcomes of Grade 7 students in Southeast Asian arts at General Santos City SPED Integrated School. Globalization and digitalization are reshaping education, creating both opportunities and challenges in preserving Southeast Asian arts. Many young learners are losing connection to their artistic heritage due to the dominance of modern entertainment and limited cultural exposure in traditional classrooms. To address this, online global classroom collaboration can enhance students' proficiency in Southeast Asian arts while developing 21st-century skills such as digital literacy, cultural awareness, and cross-cultural communication. This study used a quasi-experimental research design involving Grade 7 PLA (Personalized Learning Approach) and Grade 7 SPA (Special Program in the Arts) students from General Santos City SPED Integrated School. The experimental group (G7 PLA students) participated in online collaborations with students from other countries, while the control group (G7 SPA students) followed traditional classroom instruction. A purposive sampling method was used to select respondents. Data were collected through pretests and post-tests, classroom observations, and a researcher-made questionnaire measuring motivation, engagement, and communication skills. Findings revealed that students in the experimental group (G7 PLA students) showed significant improvement in cross-cultural communication, motivation, and engagement. Their post-test scores were notably higher than those of the control group, indicating the effectiveness of online collaboration in enhancing their learning experience. The study highlights the potential of integrating online collaboration in arts education to foster cultural appreciation and engagement. Educational institutions should adopt blended learning approaches and provide teacher training in digital pedagogy to support effective online instruction.

I. Introduction

Background of the Study

The rapid advancement of technology has transformed education, enabling innovative teaching methodologies that transcend geographical boundaries. One such approach is online global classroom collaboration, which allows students from different cultural backgrounds to engage in meaningful learning experiences. This method fosters cross-cultural communication, collaborative learning, and digital literacy, all of which are essential in the modern world.

In the context of arts education, integrating global collaboration provides students with a deeper understanding of cultural diversity and artistic heritage. Online global collaboration serves as a potential solution by connecting learners with international peers, allowing them to explore varied artistic techniques, traditions, and interpretations in an interactive learning environment. This study examines the effect of online global classroom collaboration on students' proficiency in Southeast Asian arts, comparing its impact on Special Program in the Arts (SPA) students and regular students. In the field of arts, global collaboration enriches artistic knowledge and intercultural appreciation as students gain exposure to diverse artistic traditions.

According to Yang, (2021) research on global learning networks reveals students participating in virtual arts collaborations develop stronger creative and critical thinking skills, improving their ability to analyze and interpret artistic works from various cultures. Countries like the United States and the United Kingdom have adopted virtual exchange programs to promote intercultural learning, demonstrating the potential of digital platforms to foster cross-cultural engagement. In Asia, countries such as Japan, South Korea, and Singapore have integrated technology-driven arts education, using online collaboration to connect students with artists and educators worldwide claims Lim & Wang (2016). Studies show that such initiatives enhance students' creativity, engagement, and cultural understanding. In Southeast Asia, arts education plays a crucial role in preserving cultural identity and promoting appreciation for traditional and contemporary artistic expressions. However, engaging students in arts education remains a challenge, especially in conventional classroom settings where exposure to diverse cultural perspectives is limited (Tan, 2017).

In the Philippines, the Department of Education (DepEd) has continuously promoted arts education through the Special Program in the Arts (SPA) and regular arts curricula. The implementation of DepEd's Digital Rise Program aims to integrate technology into education, supporting e-learning initiatives and online collaborative learning (DepEd, 2021). However, access to digital resources and effective online pedagogy remain challenges, particularly in rural areas. According to Mata, J., & Diaz, R. (2022) recent studies suggest that Filipino students benefit from online global collaboration, as it enhances their engagement, motivation, and exposure to diverse artistic influences.

General Santos City, located in Region 12 (SOCCSKSARGEN), is known for its diverse cultural influences, which include indigenous traditions and contemporary artistic expressions. In this city, General Santos City SPED Integrated School stands out as the only institution that has implemented an online global classroom collaboration program in arts education. As cited in Liu, Y., & Shirley, T. (2021) this initiative has allowed students to interact with international peers, explore different artistic styles, and develop intercultural competence. This study addresses the research gap in understanding how online global classroom collaboration effects the proficiency of Grade 7 students in Southeast Asian Arts at General Santos City SPED Integrated School. Furthermore, previous studies rarely compare the experiences of students in the Personalized Learning Approach (PLA) and Special Program in the Arts (SPA), leaving a gap in understanding how different learning models respond to online collaboration. This study fills the gap by examining cross-cultural communication skills, motivation and engagement, technical challenges, and teacher preparedness, providing specific insights into how online global collaboration influences arts education in a local educational setting. However, limited research has been conducted on the effectiveness of this approach in enhancing students' proficiency in Southeast Asian arts.

Theoretical Framework

The study is anchored to **Social Constructivism** and this theory emphasizes that learning is a social process where knowledge is co-constructed through interaction with others. In the context of online global classroom collaboration it suggests that students enhance their understanding of Southeast Asian arts by engaging with peers from diverse cultural backgrounds. Vygotsky refers that through these collaborative experiences, learners actively build meaning and refine their artistic knowledge. **Cultural-Historical Activity Theory (CHAT)** emphasizes the interplay between human activities, cultural tools, and social contexts in shaping learning. According to Engeström (2001) it views learning as a dynamic process influenced by cultural, historical, and social systems. In online global classroom collaboration, this theory helps analyze how cultural diversity, technological tools, and social interactions contribute to the development of students' proficiency in Southeast Asian arts.

Social Constructivism and Cultural-Historical Activity Theory (CHAT) can provide a theoretical framework for studying online global classroom collaboration and its effect on Grade 7 Special Program in the Arts learners' proficiency in Southeast Asian arts. These theoretical perspectives offer insights into the sociocultural aspects of learning and the role of collaborative activities in knowledge construction as cited in Hutchison (2006).

Moreover, by integrating Social Constructivism and Cultural-Historical Activity Theory into the study of online global classroom collaboration, a deeper understanding of the social interactions and cultural contexts shaping the students' learning experiences can be achieved. Through the lens of Social Constructivism, the collaborative nature of online global classroom collaboration can be viewed as a mechanism for learners to co-construct knowledge and meaning through interaction with their peers and exposure to diverse perspectives Leow & Neo (2015). Similarly, the Cultural-Historical Activity Theory provides a framework for analyzing learning activities' cultural and historical dimensions within online global classroom collaboration.

Conceptual Framework

Figure 1 presents the relationship between online global classroom collaboration and students' proficiency. It states that engaging students in collaborative learning experiences across global contexts may impact their academic performance and overall proficiency in the subject matter.

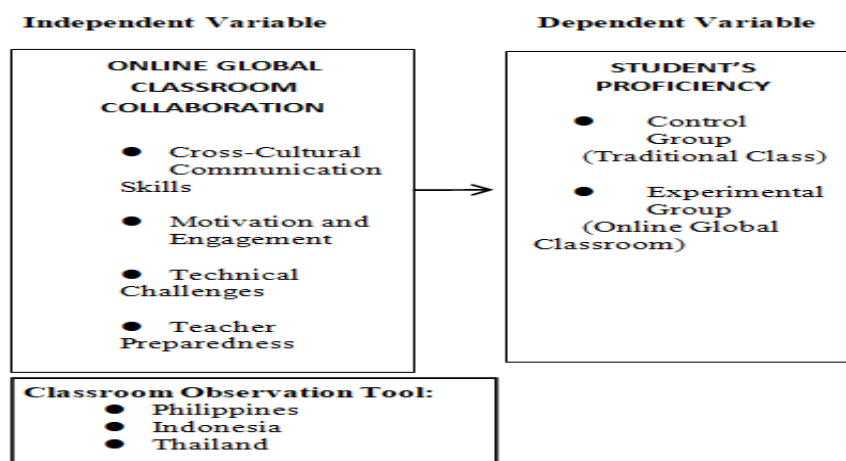


Figure 1. Conceptual Framework of the Study

Statement of the Problem

In this study, the researcher aims to determine the effect of the online global classroom on the proficiency in Southeast Asian Arts of Grade 7 Personalized Learning Approach (PLA) and Special Program in the Arts (SPA) students of General Santos City SPED Integrated School.

Specifically, this study sought answers to the following questions:

1. What is the cross-cultural level of performance in terms of classroom observation tool rating?
2. What is the level of online global classroom collaboration of the respondents in Southeast Asian Arts in terms of:
 - 2.1 Cross-Cultural Communication Skills;
 - 2.2 Motivation and Engagement;
 - 2.3 Technical Challenges; and
 - 2.4 Teacher Preparedness?
3. Is there a significant difference in the pretest mean scores of the experimental and control groups?
4. Is there a significant difference in the experimental and control groups' post-test mean scores?
5. Is there a significant difference in the mean gain in learning Southeast Asian Arts between the experimental and control groups?

Hypothesis

1. There is no significant difference in the pretest mean scores of the experimental and control groups.
2. There is no significant difference in the post-test mean scores of the experimental group and the control group.
3. There is no significant difference in the mean gain in learning Southeast Asian Arts between the experimental and control groups.

Significance of the Study

The findings of this study will be beneficial to the following:

To the students. This study provides opportunities to become capable thinkers and learners by engaging in collaborative tasks that enhance their skills and talents through Online Global Classroom Collaboration. It also promotes cultural awareness and a deeper understanding of Southeast Asian arts by allowing them to interact with peers from different cultural backgrounds.

To the teachers. This study offers insights into the potential benefits of Global Classroom Collaboration in teaching Art Education. It will guide them in developing effective, student-centered teaching strategies and incorporating innovative methods that foster collaborative learning and critical thinking.

To the administrators. This study provides valuable information on the effectiveness of Global Classroom Collaboration as a tool for transforming classroom instruction from teacher-centered to student-centered learning (Levy, 2007). It also serves as a basis for improving and designing curriculum development programs that integrate global and digital learning environments.

To other researchers. This study serves as a reference for future research on the impact of Online Global Classroom Collaboration in Art Education and other academic fields. It may also inspire further exploration of digital learning environments and their effects on student proficiency and cultural understanding.

Scope and Delimitation

This study focuses on examining the effectiveness of Online Global Classroom Collaboration in enhancing the proficiency of Grade 7 Personalized Learning Approach (PLA) and Special Program in the Arts (SPA) students in Southeast Asian Arts at General Santos City SPED Integrated School. It specifically evaluates how this collaborative approach affects students' knowledge and skills in Southeast Asian Arts, as outlined in the Grade 7 MAPEH curriculum under the MATATAG program. The countries involved in the collaboration include the Philippines, Thailand, and Indonesia. The research involved two sections of Grade 7 students, with 15 participants in each section, totaling 30 students. The Grade 7 Personalized Learning Approach (PLA) students served as the experimental group, participating in Online Global Classroom Collaboration, while the Grade 7 SPA students formed the control group, following traditional classroom instruction. This grouping was designed to minimize bias, as SPA students are regularly exposed to arts education. The study was conducted from August 2024 to October 2024 at General Santos City SPED Integrated School. A quantitative research design was employed, using a researcher-made questionnaire aligned with the study's conceptual framework. The questionnaire consisted of five key indicators measured through a 5-point Likert scale to assess and compare the proficiency levels of both groups.

Additionally, a classroom observation tool is employed to provide an objective assessment of students' cross-cultural communication skills and engagement levels during collaborative activities. The data gathered through the observation tool complements the questionnaire findings, enriching the overall evaluation of student proficiency. While the study considers external factors like cultural diversity and access to educational resources, its scope is limited to Grade 7 students within this

particular school. Therefore, the findings may not be generalize to other grade levels or educational institutions that do not implement similar collaborative programs.

Definition of Terms

For better understanding of the content of this study, the following are operationally defined:

Control Group refers to the group of students who followed the traditional face-to-face classroom setting without exposure to online global collaboration. This group consists of SPA (Special Program in the Arts).

Cross-Cultural Communication Skills refers to students' ability to interact effectively with peers from different cultural backgrounds in an online learning environment. It includes understanding cultural differences, respectful communication, and collaboration in a virtual setting.

Experimental Group refers to the group of students who participated in the online global classroom collaboration, which served as the intervention in this study. This group consists of regular students using the Personalized Learning Approach (PLA) method.

Online Global Classroom Collaboration a teaching strategy that connects students from different cultural backgrounds through virtual platforms to engage in discussions, collaborative projects, and interactive learning activities.

Performance in Southeast Asian Arts refers to students' proficiency in Southeast Asian arts, as measured through their pretest and post-test scores, evaluating their knowledge, appreciation, and practical application of artistic techniques and cultural traditions.

Personalized Learning Approach (PLA) Students refers to students following a customized learning plan that caters to their individual needs, learning pace, and interests. This approach integrates technology-based instruction and student-centered methodologies to enhance engagement and mastery of skills.

Special Program in the Arts (SPA) Students refers to students enrolled in a specialized curriculum focused on arts education, including visual arts, music, theater, dance, and media arts. SPA students undergo intensive training to develop their artistic abilities and cultural awareness.

Student Engagement and Motivation refers to students' level of interest, participation, and enthusiasm in learning Southeast Asian arts. It is influenced by instructional methods, peer collaboration, and learning experiences.

Teacher Preparedness Refers to the ability of educators to effectively implement online global collaboration, including their knowledge of digital tools, cross-cultural teaching strategies, and arts integration in a virtual setting.

Technical Challenges Includes difficulties faced by students and teachers in utilizing digital platforms for online collaboration, such as internet connectivity issues, accessibility of resources, and familiarity with online tools.

II. Review of Related Literature And Studies

This study presents the related literature and studies that directly affect the present study. It also includes the conceptual framework, hypotheses, and definition of terms that greatly helped this study.

Online Global Classroom Collaboration

Online Global Classroom Collaboration (OGCC) refers to the use of digital platforms to facilitate learning and interaction among students from different geographical and cultural backgrounds. According to Chen et al. (2021) this approach fosters real-time communication and knowledge sharing across cultural and national boundaries. Through OGCC, students are exposed to diverse perspectives, which enhances their academic engagement and the development of 21st-century skills, including critical thinking, collaboration, and digital literacy. While OGCC encourages meaningful international cooperation, it also poses challenges such as technical limitations and disparities in digital literacy claims Zhang et al., (2022). Cross-cultural communication is a critical component of online global classroom collaboration. It involves the ability to effectively communicate and interact with individuals from diverse cultural backgrounds as cited in Deardorff (2020). Engaging with peers from different cultural contexts helps students develop intercultural competence and fosters empathy and cultural sensitivity (Bennett, 2018). One advantage of OGCC is the improvement of communication competency. Participation in OGCC enhances students' ability to articulate ideas clearly across linguistic and cultural differences. This exposure helps break down cultural barriers and develop more nuanced perspectives (Patterson, 2021). However, challenges in miscommunication may arise. Language barriers and cultural misunderstandings can hinder effective communication, and students may struggle to interpret colloquial language and cultural references (Lee et al., 2019).

Motivation and Engagement

Online global classroom environments have been found to increase student motivation and engagement. This type of collaboration promotes active participation by allowing students to engage with real-world contexts and diverse viewpoints (Schunk & DiBenedetto, 2020). One of the key benefits of OGCC is enhanced intrinsic motivation. According to Ryan and Deci's (2017) Self-Determination Theory, providing students with autonomy, competence, and relatedness through OGCC fosters

intrinsic motivation. When students feel a sense of ownership and connection to their learning, they become more engaged (Yu, 2021). On the other hand, engagement disparities can occur. Despite these benefits, students with limited digital literacy and access to technology may experience lower levels of engagement, leading to inequities in learning outcomes (Collins & Halverson, 2018).

Technical Challenges

The implementation of OGCC is not without technical challenges. Both students and educators may encounter issues related to technology access, platform usability, and infrastructure limitations (Zhao et al., 2020). One primary concern is digital literacy and access. Effective OGCC relies on stable internet connectivity and familiarity with digital tools. According to Selwyn (2016) Students without reliable access to technology are at a disadvantage. Additionally, platform usability is a significant factor. Complex online learning platforms may hinder engagement if students and teachers are not adequately trained to use them (Johnson & Cooke, 2019).

Teacher Preparedness

Teacher preparedness is a significant factor influencing the success of OGCC. Educators must possess comprehensive knowledge of both content and digital pedagogies as cited Trust & Pektas (2018). A major advantage is professional development. Continuous training on digital tools and intercultural communication is essential. According to Koehler and Mishra (2018), the Technological Pedagogical Content Knowledge (TPACK) framework is vital for teacher readiness. However, pedagogical adaptation remains a challenge. Teachers must adopt innovative strategies that foster collaborative learning while ensuring inclusivity in virtual environments (Hodges et al., 2020). Student proficiency refers to the extent to which students have mastered specific knowledge and skills in a given subject. In the context of this study, it involves the ability of Grade 7 students to understand and demonstrate knowledge of Southeast Asian arts (Maring & Sing, 2021).

Traditional Class and Online Global Classroom

Traditional classroom settings provide structured learning environments with direct teacher supervision and peer collaboration. One advantage of the traditional class is the provision of immediate feedback. Students benefit from face-to-face interaction, which supports the development of foundational knowledge (Bates, 2019). However, a limitation is the lack of global exposure. Traditional classrooms may not offer the same opportunities for diverse perspectives and real-world applications as online collaborative platforms (Clark & Mayer, 2016).

The online global classroom collaboration method facilitates personalized learning through digital platforms, offering access to global resources. An advantage of the experimental group is enhanced learning outcomes. Research indicates that students in online global classrooms demonstrate improved problem-solving abilities and cultural competencies (Almala, 2020). However, a potential drawback is unequal participation. Without proper implementation, OGCC may result in superficial engagement and disparities in student involvement (Zhang et al., 2022). In conclusion, online global classroom collaboration offers substantial benefits in fostering cross-cultural communication, enhancing motivation, and improving proficiency in Southeast Asian arts. However, addressing technical and pedagogical challenges remains essential for maximizing its effectiveness.

Digital Age Online Cooperative Learning Global Classroom Project

Online global classroom collaboration has transformed education such that students from all around the world may participate in instructive activities, therefore transforming the digital era. Through digital channels, this approach links knowledge exchange, critical thinking, and cultural appreciation arising from learning from numerous civilizations. Crucially, in a rapidly globalizing society, online global learning fosters an environment where students can share their opinions, work on projects, and develop intercultural skills (Zhu et al., 2019).

Online collaborations offer digital accessibility and address cultural differences in communication styles, but they also present challenges in maintaining student involvement and ensuring global learning opportunities (Kumar & Ochoa, 2020). Good virtual learning largely focuses on the design of engaging and inclusive learning activities, motivating student involvement while respecting different cultural backgrounds.

Technology Enhanced Arts Education and Cultural Learning Including digital technologies in art education helps students to their viewpoints, interpretations, and artistic creations in their surrounding outside the conventional classroom. Virtual museums and digital performances give Southeast Asian arts online access so students may experience the display of cultural traditions despite geographic limitations (Kim, 2021). Particularly to understand the minute features of cultural objects, interactive technologies including multimedia presentations, 3D modeling, and virtual reality (VR) have been used to help students value traditional art forms (Huang & Liaw, 2018). However, scholars contend that digital representations fall short of accurately capturing the intricacy of hands-on artistic experiences; therefore, hybrid learning strategies, which incorporate both virtual and physical engagement in arts education, represent the future.

Moreover, PLA is a developing student-centered online arts education tool that allows students to develop personal learning objectives, research creative issues of personal relevance, and progress at their speed (Brown et al., 2020). This approach ensures that online art education could completely advantage students with different artistic backgrounds and learning preferences.

Online Learning and Cultural Exchange in the Philippine Context

Especially in front of the COVID-19 outbreak, the Philippines' adoption of online and hybrid learning has accelerated. The Department of Education (DepEd) and the Commission on Higher Education (CHED) have agreed with DepEd (2021) that ICT-based education should be promoted to help students learn better and keep cultural education programs alive in a digital setting.

Studies of Filipino students engaged in online global classroom projects reveal, according to Cruz and Ramos (2022), enhanced communication skills, cultural sensitivity, and global awareness. However, issues such as internet connectivity, inadequate teacher training, and challenges in maintaining student motivation continue to hinder the effective implementation of virtual exchange programs.

Dela Cruz et al. (2021) suggest in the scope of arts education that digital cooperation is a useful way to maintain and forward Southeast Asian arts. Virtual art displays, video documentaries, and interactive learning tools help students engage with local and international artists and become quite engaged with the creative tradition of this region.

The sole institution in the city at a regional level doing an online global classroom collaboration project is General Santos City SPED Integrated School. This project allows students to interact with foreign colleagues, share creative ideas, and gain a deeper understanding of Southeast Asian art techniques.

Studies done in Region 12 show that SPED students benefit from SPA and PLA, sharpening their artistic abilities as they adapt to online learning (Torres et al., 2023). Still, problems preserving online arts education include insufficient exposure to traditional artistic techniques, poor access to high-speed internet, and dwindling involvement in digital contexts.

Although overseas collaborations expose students to numerous kinds of art, there is concern that too much Western influence could compromise Southeast Asian creative uniqueness. Teachers should also design instructional projects reflecting the diversity of Southeast Asian arts and concurrently acquire a global perspective.

Apart from encouraging critical competency development and cultural interaction, online global classroom cooperation allows students a great opportunity to engage and cooperate with peers all around the world. Students can engage in significant conversations, share ideas, and collaborate on group projects using technology and other online tools (Yparrea & Montoya, 2020).

Along with teaching students how to think critically, communicate effectively, operate as a team, and welcome change, collaborative learning helps them to understand other people's cultures and viewpoints. Furthermore, worldwide virtual classrooms expose students to diverse points of view and experiences, therefore encouraging their curiosity and a larger view of the globe. By exposing students to a range of views and experiences, participating in online global classrooms can help them widen their knowledge, open their eyes, and get a global perspective (Bernal, n.d.).

Participating in online global classrooms allows students to increase their knowledge and develop a closer understanding of world events and challenges. Students can learn about many cultures, customs, and points of view even as they grow in empathy and respect for others. Online global classrooms also let students solve real-world issues and tackle worldwide concerns (Guo-Brennan, 2022).

Some scholars argue that whereas virtual global classrooms provide chances for intercultural communication and cooperation, they also create major challenges. Among the challenges are the consistency and quality of the material presented on websites. The profusion of internet resources could expose students to misleading information and distorted opinions, therefore impairing their ability to understand cultures and global issues (Metzger, 2007).

However, given its digital form, an online global classroom might potentially restrict the depth of interactions among students. Students may find it difficult to respect and comprehend their peers from many ethnic backgrounds without these in-person meetings. Lack of physical presence and interpersonal connection could impede the formation of strong bonds and a real grasp of many points of view.

Moreover, the online global classroom could unintentionally stop students from learning critical interpersonal skills since it mostly depends on technology for cooperation and communication. Should students rely too much on digital communication, they can miss chances to engage in real-world cooperative projects and effective communication (Duffy et al., 2020). Negative consequences of online global classrooms must be taken into account and controlled even if they offer chances for cross-cultural cooperation and interaction, so optimizing student potential (Bernal, n.d). All things considered, virtual global classrooms could present transforming and empowering opportunities to globalize education (Guo-Brennan, 2022).

Through online global classrooms, students throughout countries in Southeast Asia can interact with one another and foster intercultural awareness. Virtual global learning systems allow students to solve real-world problems and tackle global concerns. They also provide pupils the opportunity to develop digital literacy and adjust to a society where daily connectivity is progressively linked.

Still, language barriers and different educational systems could hinder the effectiveness of online worldwide classrooms in Southeast Asia. By developing curricula, providing language support tools, and encouraging cultural sensitivity in online learning environments, teachers and legislators can help solve problems (Muthi'ah et al., 2021). Diversity and cultural sensitivity also have to be key priorities in online global universities. It means including a variety of points of view and voices in the curriculum, supporting cross-cultural communication and understanding, and creating a friendly environment in which every student is free to participate and help (Guo-Brennan, 2022).

Although online global learning offers many advantages, there are also legitimate questions about its efficacy and possible negative effects. Some detractors contend that since students may only be exposed to carefully chosen or filtered material about various cultures and points of view, online global classrooms may unintentionally support cultural stereotypes and assumptions. It could impede the development of real cultural competency by generating a narrow and maybe distorted perspective on world problems (Martín & Rodríguez, 2017).

Furthermore, the way online global classrooms depend on technology for collaboration and communication could impede students' acquisition of critical interpersonal skills, such as active listening and nonverbal communication. Ximena and Alvarez (2019) claim that students might ignore the complexities of various cultural cues and communication, which are vital for effective global cooperation. Furthermore, consideration should be given to the digital gap and the differences in children's access to technology depending on their location. Although online global classrooms offer a chance for intercultural interaction, children from less wealthy backgrounds might not have equal access to the necessary tools and technologies, which would lead to differences in their educational experiences and maybe support already existing inequalities (King et al., 2018). These issues must be addressed; if online global schools are to flourish in Southeast Asia and beyond, real cultural sensitivity and diversity must take center stage. Comprehensive cultural education should be given, and students should engage in critical conversations about the shortcomings and possible prejudices of online global classrooms (Vadivel et al., 2017).

Online learning is generally embraced in the Philippines as a complement to top-notch education; nonetheless, there are many main challenges facing online global classrooms in Southeast Asia. The main problem is still irregular internet connectivity, particularly in rural and distant locations. Students may find it more difficult to engage with abroad students and cultures as a result of their separation—that is, their inability to obtain course materials and completely participate in online classrooms.

Language issues could potentially be a serious concern in online foreign courses. The variations in English competency among overseas students may complicate teamwork and communication (Metila et al., 2016). Teachers in online global classrooms should consider employing strategies like translating materials or providing language support services to get beyond these challenges and guarantee successful communication amongst students with different linguistic backgrounds.

An online global classroom allows students special chances to interact and work with their peers worldwide while developing key skills and improving cultural interaction. Using technology and other online tools, students can participate in meaningful dialogues, exchange ideas, and team on group projects (Yparrea & Montoya, 2020). Apart from teaching students to reason critically, clearly, and persuasively; engage in group projects; and welcome change, cooperative learning helps to improve knowledge of other cultures and viewpoints. Moreover, worldwide virtual classrooms help pupils explore and see the larger world perspective through exposure to many points of view and different experiences. By using online global classrooms, students can open their eyes, extend their knowledge, and acquire a worldwide viewpoint through a vast spectrum of ideas and experiences (Bernal, n.d.).

Through online global classrooms, students can deepen their knowledge and acquire an awareness that transcends world issues and challenges. Learning about the many civilizations, customs, and points of view helps students to develop empathy and respect for other people. Furthermore, online global classrooms allow students to act on global concerns and solve problems facing the real world (Guo-Brennan, 2022).

While some academics contend that virtual global classrooms present opportunities for cross-cultural contact and teamwork, they also pose serious problems. Among the difficulties are the accuracy and quality of the material offered on the web sites. The abundance of internet resources could expose students to false information and biased viewpoints, thereby restricting their capacity to adequately grasp cultures and global problems.

Conversely, the digital form of an online global classroom could restrict the depth of relationships that could develop among the students. Without such in-person interactions, the students can find it challenging to truly relate to and value those friends from another cultural background. Lack of interpersonal contact as well as lack of physical presence could restrict the development of this great connection as well as actual knowledge of many points of view.

Furthermore, because the online global classroom depends on technology for communication and teamwork, it may unintentionally impede the growth of important interpersonal skills in students. If students depend too heavily on digital communication (Duffy et al., 2020), they may miss chances to develop effective communication and teamwork in real-world scenarios.

While online global classrooms present powerful chances for trans-cultural cooperation and exchange, negative effects cannot be disregarded or minimized in establishing strategies to guarantee student maximizing (Bernal, n.d.). All things considered, virtual

global classrooms could offer chances for globalizing education that empowers and revolutionizes it (Guo-Brennan, 2022). Online global classrooms let Southeast Asian students engage with one another and develop intercultural understanding. Virtual global learning systems let students act on world issues and address practical difficulties. They also give students the chance to gain digital literacy and become used to a world daily growing increasingly linked through technology.

Different educational systems and language constraints could potentially, however, limit the success of online global classrooms in Southeast Asia. Teachers and lawmakers can set curriculum frameworks, offer language support tools, and promote cultural sensitivity in online learning environments (Muthi'ah et al., 2021) to handle these.

Furthermore, in online global classrooms, cultural sensitivity and inclusiveness should be given top priority. It entails including a variety of points of view and voices in the curriculum, therefore encouraging cross-cultural communication and understanding, and building a friendly atmosphere in which every student may participate and help (Guo-Brennan, 2022).

Although online global classrooms offer many benefits, there are still reasonable questions regarding their effectiveness and possible drawbacks. Some opponents argue that online global classrooms may unintentionally support cultural stereotypes and prejudices since pupils may only be exposed to well-selected or filtered content about different cultures and points of view. It may hinder the acquisition of real cultural competency by leading to a limited and maybe biased viewpoint on world issues (Martín & Rodríguez, 2017).

Moreover, the way online global classrooms depend on the use of technology for communication and cooperation could disturb the growth of essential interpersonal skills, such as active listening and nonverbal communication, among students. Effective international cooperation depends critically on the subtleties linked with many types of cultural cues and communication, which students could miss (Ximena & Alvarez, 2019).

The digital gap and the disparities in children's access to technology, depending on their location, are also significant issues. Although online global classrooms provide an opportunity for intercultural interaction, children from less wealthy backgrounds may not have equal access to the required technology and resources, which may lead to variations in their learning experiences and may even help to sustain already existing inequality (King et al., 2018).

These problems have to be addressed, and real cultural knowledge and diversity must be given top attention if online global classrooms are to flourish in Southeast Asia and beyond. Students should participate in critical dialogues on the shortcomings and probable prejudices of online global classrooms (Vadivel et al., 2017); hence, comprehensive cultural education should be provided.

Popular in the Philippines as a means of expanding high-quality education, online learning presents several major difficulties when placing global classes online in Southeast Asia. The biggest issue is still erratic internet access, especially in isolated rural areas. As students cannot access course materials and fully participate in online classrooms, this isolation may make it difficult for them to interact with foreign students and cultures.

One major problem with online worldwide classes could be language problems. The differences in English competency among overseas students compromise both communication and teamwork (Metila et al., 2016).

Teachers in online global classrooms could want to use tactics like translating materials or offering language support services to overcome these obstacles and guarantee successful communication among students from several linguistic backgrounds. Digital technology's quick development has had a big impact on education, especially in online learning settings. More interactive, collaborative, and captivating learning experiences have been made possible by digital tools, increasing the effectiveness and accessibility of virtual education (Hernández-Sellés et al., 2019). Real-time communication tools, collaboration platforms, and a variety of multimedia materials all support student motivation, retention of information, and the general efficacy of online learning (Wang et al., 2020).

By making learning more immersive, multimedia resources including films, animations, and interactive presentations improve students' interest and understanding. According to research, using multimedia materials such as audio clips, digital storytelling, and hyperlinked texts promotes critical thinking and problem-solving abilities. A more dynamic and student-centered learning environment can be produced by instructors who successfully integrate multimedia in online settings.

Collaborative Education Using Digital Resources

By enabling students to collaborate virtually, digital tools promote collaborative learning. Wikis, Google Docs, and Prezi are examples of technologies that facilitate collaborative knowledge-building and real-time content updating. According to studies, wikis are preferred by students over blogs and discussion boards for group projects because they foster time management, critical thinking, and teamwork. Peer-to-peer learning is facilitated by virtual collaboration platforms, which allow students to exchange ideas and hone their academic and social abilities.

Social media, which provides chances for conversation, peer mentoring, and knowledge sharing, has emerged as a crucial component in online learning environments. Academic networking and informal learning outside of typical classroom settings are made easier by platforms like Facebook, Twitter, and LinkedIn. According to research, social media improves students' capacity for self-directed learning, communication, and teamwork (Alwagait, Shahzad, & Alim, 2015). Additionally, social media helps students in the social sciences and humanities by enhancing their ability to communicate informally (Al-Aufi & Crystal, 2015).

Students can now actively participate in virtual classrooms through real-time interactions because of the growing popularity of synchronous learning. Instructors may hold live discussions, lead group activities, and keep students engaged with the help of video conferencing systems like Zoom, Microsoft Teams, and Google Meet (Thompson et al., 2017). According to research, students' learning experiences are improved by video-based instruction, particularly when instructors are present, as opposed to non-instructor-led video content (Wang et al., 2020). Furthermore, breakout rooms with scheduled online pair activities enhance student productivity and collaboration (Saltz & Heckman, 2020).

Issues and Things to Think About in Digital Learning

Notwithstanding the benefits of digital technologies, successful online learning requires addressing many issues. Students' learning experiences can be hampered by problems including erratic internet connections, technical challenges, and deficiencies in digital literacy. Additionally, the quality of instructional design and student engagement tactics determine how effective online learning technologies are (Hernández-Sellés et al., 2019). To get the most out of digital tools in education, teachers need to set clear rules and offer organized assistance.

Educators need to be more culturally responsive and cater to a wider variety of learners that are found in virtual classrooms. Researched graduate students in online learning environments based on different ethnic backgrounds. Their results showed that African American students participated in online discussions at a lower level than Caucasian students, and highlighted a preference for auditory and visual forms of discussion over text-based chats. Similarly, Fogg et al. (2013) discovered that African American students commonly assumed the role of assimilators within virtual communities and participated in learning actions that differentiated them from other groups. Heitner and Jennings (2016) highlighted the importance of culturally responsive teaching in online environments identifying that educators are the area along with other struggles to implement inclusive practices successfully.

Several studies have examined the relationship between technology use and student success in diverse learning environments. Kumi-Yeboah et al. (2016) analyzed how the use of digital tools, social media, and online learning platforms influenced the academic performance of minority students. Their findings suggested that sociocultural factors, such as students' cultural backgrounds and peer networks, significantly impact their engagement in virtual classrooms. Meanwhile, Mittelmeier et al. (2018) explored how students from different cultural backgrounds participate in online collaborative learning, revealing that cultural norms and prior educational experiences shape their interactions. Addressing these cultural differences, Sadykova and Meskill (2019) underscored the importance of incorporating students' cultural perspectives into online course designs to enhance learning outcomes. Similarly, Martin and Bolliger (2018) identified strategies to increase student engagement in digital learning environments, emphasizing the role of interactive and collaborative activities. Instructors' perceptions of cultural diversity in online education were further examined by Kumi-Yeboah et al. (2020), who identified difficulties in integrating multicultural content into digital courses. Despite these insights, there remains a gap in research regarding how digital technologies influence the educational experiences of diverse learners in online settings. Moreover, few studies have directly examined students' perspectives on the effectiveness of various technological tools in fostering engagement and academic success. This study seeks to address these gaps by investigating how learners from different cultural backgrounds perceive and utilize digital tools in virtual learning environments.

These findings underscore the importance of fostering dynamic and engaging online learning environments. To optimize student success, educators should prioritize interactive teaching strategies, personalized feedback, and opportunities for collaboration. By integrating culturally responsive teaching practices and leveraging digital tools effectively, online education can become more inclusive and engaging for students from diverse backgrounds.

Southeast Asian arts comprise performing, visual, and literary arts among other creative traditions. Indigenous beliefs, animistic customs, and later influences from Indian, Chinese, and Islamic civilizations have helped to define the expressions of the region. Many indigenous forms of art are older than Indian cultural features, including Hindu-Buddhist imagery, temple building, and epic literature; these factors have much to do with the evolution of artistic traditions. These include gamelan orchestras, still active today even in modernism; wayang kulit, shadow puppetry, in Indonesia; and batik cloth art in Malaysia (Bakar, 2021).

Geologically and culturally, Southeast Asia is split into two primary zones: maritime Southeast Asia (Malaysia, Indonesia, the Philippines, Brunei, Timor-Leste, and Singapore) and mainland Southeast Asia (Vietnam, Thailand, Myanmar, Cambodia, and Laos). Though these nations have similar artistic themes, local histories, religious beliefs, and contacts with other civilizations shape their cultural representations.

Still, with foreign influences, Southeast Asia boasts significant local artistic identities. The cultural legacy of the area is considerably enhanced by traditional forms such as woodcarving, cloth weaving, and mural painting (Miksic & Goh, 2017). Deep ties between art, spirituality, and daily life are shown by intricate carvings of Angkor Wat in Cambodia, the delicate lacquerware of Myanmar, and the ikat weaving traditions of Indonesia and the Philippines (Jones, 2020).

Storytelling and community rites also depend much on the performing arts. Representing history, mythology, and societal values, examples are Khon dance theater in Thailand, Kecak trance dance in Bali, and Pangalay dance in the Philippines (Tan, 2018).

Often, these presentations show the value of multisensory creative experiences in the area using symbolic gestures, extravagant clothing, and rhythmic music.

Southeast Asian arts are tools for cultural preservation and teaching as much as displays of creativity. Religious rites, celebrations, and national identity—all of which are deeply entwined with creative traditions—have a direct bearing on younger generations who will stay close to their artistic legacy as traditional arts from Indonesia and Malaysia are included in the official school system (Hussin, 2019). However, fast globalization and digitalization pose difficulties since current entertainment media sometimes eclipses traditional arts and calls for fresh approaches to preserve cultural transmission (Lopez & Toh, 2021).

Digital Age South-east Asian Arts

Including technology in arts education has created fresh chances for safeguarding and advancing Southeast Asian creative cultures. Digital platforms let artists present classic art forms to people all around, therefore guaranteeing their survival in modern society (Chua, 2020). Digital storytelling methods, virtual museums, and online art projects serve to close generational gaps and increase the accessibility of traditional arts to younger students (Martinez, 2021).

Online global classroom cooperation has helped Southeast Asian students to exchange artistic approaches, investigate regional variations in art styles, and develop a greater respect for their cultural identity through cross-cultural learning (Liu et al., 2022). The difficulty still resides in keeping true artistic traditions while allowing current digital influences.

For millennia, traditional classroom learning—also known as face-to-face instruction—has been the most widely used approach to education globally. Usually, in a school or university, it has required direct contact between a teacher and students in a clearly defined physical space (Brown & Green, 2019). This method helps teachers apply a range of instructional tactics, including lectures, discussions, hands-on activities, and assessments, thereby supporting real-time engagement and a disciplined learning environment; it also lets teachers use Traditional Classroom Education: Fundamental Features Among the key advantages of traditional classrooms is direct student-instructive interaction. Real-time comments let students participate in cooperative learning, clear queries, and solve problems (Garrison & Vaughan, 2021).

According to Vygotsky's Social Development Theory, where students learn through social contact, guided instruction, and peer engagement, face-to-face connection is a fundamental component of the genuine development of knowledge where students find themselves. Structured schedules in traditional schools also help students maintain a calendar, therefore enhancing their discipline and time management skills (McCombs & Vakili, 2018). Unlike online learning, which depends on the individual's motivation and availability to technology, a traditional classroom lets teachers have a regulated setting to monitor students's development and to handle problems that could arise during learning promptly (Slavin, 2022).

According to research that looked at students' physical presence, spoken language, and other body language, traditional classroom education encourages higher levels of student participation (Doyle, 2021). Through group discussions, cooperative projects, and demonstrations, classroom settings foster active participation among students, particularly in areas such as experiential learning, science, arts, and physical education (Lave & Wenger, 2020).

Furthermore, a 2019 Mehrabian study indicates that facial expressions, hand gestures, and eye contact aid students in creating a positive connection with their lecturers and so enable their remarkable learning. Online courses' framework leaves out this kind of personal engagement. A pupil gets demotivated and alienation in such situations (Palloff & Pratt, 2021).

Challenges of Traditional Classroom Education Conventional classroom learning has disadvantages, especially in terms of tailored education and accessibility, notwithstanding its advantages (Bloom, 2020). High-class counts could result in insufficient teacher attention to each student, thereby making it difficult to satisfy different learning demands (Felder & Silverman, 2018). Moreover, if teaching approaches neglect visual, auditory, and kinesthetic learners (Kolb, 2019), students with different learning environments could suffer. Another negative aspect of conventional educational systems is their rigidity. This keeps working students, disabled students, and those from far-off areas without easy access to institutions from fully participating in the program. The COVID-19 epidemic made this issue more acute since many educational institutions had to go digital to ensure continuity in learning (Hodges et al., 2020). Examining Online and Conventional Education While traditional classroom learning is wonderful for engaging and hands-on instruction, online learning has become increasingly popular due to its flexibility, accessibility, and self-paced character (Moore et al., 2021). Research shows, however, that blended learning—which combines digital resources with in-person instruction—may be the best balanced and quick approach (Graham, 2019). While simultaneously enjoying the advantages of real-time teacher engagement, blended learning enables students to employ extra internet tools for independent learning (Hrastinski, 2022).

Synthesis

The review of literature shows that Online Global Classroom Collaboration has a positive effect on student learning, especially in Southeast Asian arts. It helps students connect with international peers, increasing their cultural awareness and understanding of artistic traditions. This exposure improves their ability to communicate and interact across cultures, though language barriers can create difficulties. It also increases student motivation by offering engaging and real-world learning experiences. When students feel connected to the content, they are more likely to stay involved. However, not all students have equal access to technology, which can lead to differences in engagement and learning outcomes. Technical challenges are another concern. For this to be

effective, there must be reliable technology, easy-to-use platforms, and proper training for both students and teachers. Without these, it is difficult to maintain smooth and effective collaboration. Teacher preparedness is also important. Educators need training in digital tools and intercultural communication to support students in an online environment. Programs that focus on these skills can help teachers adapt to the demands of online collaboration. Comparing traditional and online classrooms reveals both strengths and weaknesses. Traditional classes offer immediate feedback and personal interaction, which help build foundational knowledge. However, they do not provide the global connections that Online Global Classroom Collaboration offers. On the other hand, it allows for cultural exchange and the development of modern skills, but it requires strong technical support and equitable access to succeed.

In conclusion, Online Global Classroom Collaboration is a valuable tool for improving student proficiency in Southeast Asian arts. To fully benefit from it, schools need to address technical challenges, prepare teachers effectively, and ensure that all students have access to the necessary resources. This approach can help create a richer and more inclusive learning experience for all students.

III. Methodology

This chapter presents the method that was used during the study. It consists of the research design, study subjects, instruments, data gathering procedure, and statistical treatment for data analysis.

Research Design

This study employs a quantitative research design, which involves the systematic collection and analysis of numerical data to identify patterns, relationships, and trends. Quantitative research is characterized by its objective nature, allowing researchers to quantify variables and analyze them using statistical methods (Creswell, 2018). This approach is particularly useful in educational research, as it provides measurable evidence to evaluate the effectiveness of instructional methods. Furthermore, quantitative research ensures reliability and validity through structured methodologies such as surveys, experiments, and statistical analysis, making it an ideal choice for studies that aim to compare different educational interventions (Cohen et al., 2018; Johnson & Christensen, 2020). The ability to measure learning outcomes objectively makes this method valuable in assessing the impact of online global classroom collaboration.

A quasi-experimental research design is adopted to investigate the effect of online global classroom collaboration on students' proficiency in Southeast Asian arts. Unlike true experiments, quasi-experiments do not involve full randomization, yet they still provide valuable insights into causal relationships between variables (Shadish et al., 2015). This approach is particularly practical in educational settings where complete random assignment is not feasible due to logistical constraints (White & Sabarwal, 2015). By comparing the pretest and post-test results of the experimental and control groups, the study aims to determine whether online global collaboration significantly influences student learning outcomes (Cohen et al., 2018). The ability to measure changes over time helps capture the long-term effects of the intervention, ensuring that the results reflect genuine improvements in student proficiency.

In this study, the quantitative and quasi-experimental approach is applied to Grade 7 students at General Santos City SPED Integrated School. The experimental group participates in online global classroom collaboration, engaging with international peers to explore Southeast Asian arts. Meanwhile, the control group follows traditional classroom methods, receiving the same content without global interaction. Data is collected through pretests and post-tests, measuring participants' knowledge and skills before and after the intervention. This design enables a structured comparison of learning gains, offering objective insights into how online collaboration influences academic performance. The findings from this study can contribute to improving curriculum development, informing educational policies, and enhancing global collaboration initiatives in arts education (Ryan & Deci, 2020).

Locale of the Study



Figure 2. Map of the Locale of the Study

Source: GSC SPED Integrated School

This study was conducted in General Santos City SPED Integrated School. General Santos City is located in the southern part of the Philippines, in the province of South Cotabato. The SPED Integrated School is a specialized educational institution within General Santos City that offers Special Education (SPED) programs, including the Special Program in the Arts (SPA) and

Personalized Learning Approach (PLA).

The exact location and facilities of the school are detailed in the research to provide a comprehensive understanding of the study's context. It is important to note that it is limited to Grade 7 SPA and PLA students at General Santos City SPED Integrated School. It is implied that other schools are not included in this study. Because only this school implements online global classroom collaboration, the findings may not apply to schools that do not employ similar practices.

Respondents of the study

The respondents of this study are 30 Grade 7 Special Program in the Arts (SPA) and Personalized Learning Approach (PLA) students of General Santos City SPED Integrated School. The researcher used purposive sampling. Each student answered the questions on the effect of Global Classroom Collaboration on proficiency in Southeast Asian Arts and what factors contribute to its effectiveness or limitations, including Cross-Cultural Communication Skills, Technical Challenges, Cultural Sensitivity, and Teacher Preparedness.

The experiences and opinions of these students provided valuable insights for analyzing the effect of online global classroom collaboration on proficiency in Southeast Asian Arts. Their responses offer first-hand perspectives on how this collaborative learning approach influences their understanding and engagement with Southeast Asian Arts. By involving students from specialized educational programs, the study captures a diverse range of learning experiences and identifies both the strengths and challenges of implementing global classroom collaboration. The use of purposive sampling ensures that the selected respondents possess the specific knowledge and experiences necessary to address the study's objectives. This targeted approach allows for a more in-depth exploration of how global collaboration affects learning outcomes, providing a comprehensive evaluation of its impact on student proficiency in Southeast Asian Arts.

Sampling Technique

The researcher used purposive sampling because she believed that through this sampling technique, she could obtain a representative sample using sound judgment and save time (Black K, 2010, as cited in Ana Ph, 2021). In addition, this method is effective when applied to a small population or group; thus, it is easier to draw conclusions and generalizations (Glen, 2021).

Research Instruments

The study used a researcher-made and adapted questionnaire to determine the effect of online global classroom collaboration on Grade 7 PLA and SPA students' proficiency in Southeast Asians in General Santos City SPED Integrated School for the academic year 2024-2025. The research instrument used was a constructed questionnaire, which was validated, administered, and retrieved. It served as a guide for measuring the effect of online global classroom collaboration on students' proficiency in Southeast Asians. Respondents were asked to answer statements that assessed their proficiency levels in Southeast Asians due to their participation in online global classroom collaboration.

The researcher-made questionnaire used a 5-point Likert scale to assess student perceptions regarding the effectiveness of the online global classroom collaboration. Each indicator consisted of five (5) statements, and respondents rated their level of agreement based on the following scale:

Likert Scale Interpretation

Numerical Mean	Mean Rating	Description
5	4.500-5.00	Strongly Agree
4	3.500-4.499	Agree
3	2.500-3.499	Undecided
2	1.500-2.499	Disagree
1	Below 1.499	Strongly Disagree

This table represents how the respondents evaluated each statement in the questionnaire. A mean rating between 4.500 and 5.000 indicates strong agreement with the statement, whereas a mean below 1.499 reflects strong disagreement. The Likert scale is a widely used tool in research for measuring attitudes, opinions, and perceptions. In this study, the Likert scale facilitates the quantification of respondents' views on various aspects, providing a structured way to interpret their feedback. Each statement in the questionnaire corresponds to a point on the scale, allowing researchers to analyze patterns and trends in the data. Higher mean ratings suggest a more favorable perception, while lower mean ratings indicate dissatisfaction or disagreement. By categorizing responses into five levels, the scale enables a nuanced understanding of how participants perceive the intervention's effectiveness, their engagement, and other measured variables. This systematic approach helps to translate qualitative opinions into quantitative data, enhancing the accuracy and reliability of the analysis.

Proficiency Level in Southeast Asian Arts

Proficiency Level in Southeast Asian Arts	Description	Interpretation
14-15	Excellent	Meet above 95%-100%
11-13	Very Good	Meet above 90%-94%
8-10	Good	Meet above 70%-89%
5-7	Poor	Meet above 35%-69%
0-4	Very Poor	Meet above 30%

This table classifies students based on their learning proficiency in Southeast Asian Arts. Students scoring 14-15 fall into the "Excellent" category, meaning they demonstrated outstanding knowledge and skills, while those scoring 0-4 are categorized as "Very Poor," indicating minimal proficiency. This classification helps assess the effectiveness of the online global classroom collaboration by comparing pretest and post-test scores. The proficiency levels provide a clear framework for evaluating student performance. Higher scores reflect a stronger grasp of Southeast Asian Arts concepts, while lower scores suggest areas needing improvement. This classification allows educators to identify learning gaps and measure the impact of instructional strategies. By analyzing shifts in proficiency levels between pretest and post-test, researchers can determine the extent to which the online global classroom collaboration enhances student learning outcomes.

Data Gathering Procedure

Data are facts gathered through methodical scientific techniques. This study describes the stages of the data collection process employed by the researcher.

Upon acquiring permission to conduct the study from the Dean of Sultan Kudarat State University- Graduate School, the researcher sent letters of communication to the office of the school Division Superintendent- General Santos City, Principal of General Santos City SPED Integrated School as well as the participants of the study, Grade 7 students. The Research Adviser and the Dean of the Graduate School signed the letters. The researcher properly coordinated and facilitated all communication. Furthermore, the researcher also solicited permission and approval from the respondents to prove their voluntary participation in the study. Research is about collecting data from people and about people; hence, obtaining consent and permission is the process of telling potential research participants about the research and their possible participation. They must decide to volunteer for a research study as stipulated in the Basic Informed Consent Elements - Common Rule of 2018. The researcher sought approval from the School Division Superintendent of General Santos City and the School Principal through letters to allow a study in General Santos City SPED Integrated School.

After the approval from the Superintendent and the School Principal, the researcher presented a letter of consent to the respondents. The researcher carefully explained the study details to the participants. Confidentiality was assured as data was encoded and real names were substituted or optional.

In addition, the data were ensured that the information was free from bias towards any groups of individuals. The participants also knew they could withdraw their statements anytime during the process. They also have control over declining to answer the interview questions.

One of the most important tasks in the study design phase is identifying appropriate participants based on the theoretical perspective of the research question (J. Sargeant PhD., 2012). Hence, in identifying potential participants in the research study, the researcher must rightfully treat them by disclosing their participation as part of the research ethics process (Research Ethics, 2020).

In identifying the participants, it must pass the inclusion criteria. This study's participants were Grade 7 PLA and Grade 7 SPA students taking art subjects at General Santos City SPED Integrated School. The participants were informed about the important facets and perspectives of the studied phenomena.

This study was conducted on Grade Personalized Learning Approach (PLA) and Special Program in the Arts (SPA) students of General Santos City SPED Integrated School. The subjects of this study were 30 students who were classified into two (2) groups: the experimental group and the control group. The researcher designated the Grade 7 Personalized Learning Approach (PLA) as the experimental group (online global classroom) and the Grade 7 Special Program in the Arts as the control group (traditional class) to mitigate bias, considering that Grade 7 SPA students are consistently exposed to arts education. The researcher utilized a self-made questionnaire and adapted instruments.

The researcher-made questionnaire consisted of five (5) statements per indicator. Each item was answered using a 5-point Likert scale with 5 as the highest and 1 as the lowest. The adapted instruments contained the topics in Grade 7 Arts, including the Southeast Asian Arts, as stated in the curriculum guide for K to 12. The global and traditional classroom teachers provided lesson plans about Southeast Asian Arts. The respondents took the pretest and post-test, comprising 15 items.

Each input/response of the respondents was collected and consolidated to ensure a thorough and comprehensive analysis of their learning experiences (Sargeant, 2012). The quantitative data from the pretest and post-test scores, as well as survey responses, were analyzed using descriptive and inferential statistics to determine patterns and assess the effectiveness of the intervention. Additionally, the researcher ensured that both positive and critical perspectives were acknowledged, as not all responses reflected solely favorable experiences (Sargeant, 2012).

Statistical Tools and Treatment of Data

The data required for this study were collected using a pretest and post-test questionnaire (Willis, 2016). Different statistical tools were applied to analyze and interpret the data according to the specific objectives of the study: To determine the cross-cultural level of performance in terms of classroom observation tool rating descriptive statistics (Mean and Standard Deviation) were used to measure and interpret the cross-cultural performance of both the experimental and control groups based on classroom observation ratings. To determine the level of online global classroom collaboration of the respondents in Southeast Asian Arts descriptive statistics (Mean and Standard Deviation) were used to summarize and analyze the levels of cross-cultural communication skills, motivation and engagement, technical challenges, and teacher preparedness.

To determine if there is a significant difference between the pretest mean scores of the experimental and control groups independent samples t-test was used to compare the pretest mean scores of the experimental (PLA) and control (SPA) groups and assess whether a significant difference existed in their baseline knowledge.

To determine if there is a significant difference between the experimental and control groups' post-test mean scores, independent samples t-test was applied to compare the post-test mean scores of the experimental and control groups to evaluate the effect of online global classroom collaboration on student proficiency.

To determine if there is a significant difference in the mean gain in learning Southeast Asian Arts between the experimental and control groups, independent samples t-test was employed to compare the mean gain scores of the experimental and control groups to assess which instructional approach led to greater improvements in learning outcomes.

All tests were done at a 0.05 level of significance.

Ethical Considerations

This study ensured that all respondents' rights, privacy, and well-being were protected. Before starting the research, approval was obtained from the School Division Superintendent, the school principal, and the students involved. Informed consent was given to students and their guardians, explaining the study's purpose, process, and their right to participate or withdraw at any time. According to Creswell and Creswell (2018), ethical research must prioritize participants' autonomy and ensure voluntary participation. The researcher made sure that students fully understood what the study was about and that their participation was completely voluntary. They were assured that their decision to join or leave the study would not affect their grades or standing in school. Confidentiality was strictly maintained by keeping all responses anonymous, following the ethical guidelines set by the American Psychological Association (APA, 2020). The researcher was careful to create a safe and comfortable environment for students, especially when dealing with online learning challenges. Any issues students faced were handled with fairness and understanding. As suggested by Cohen, Manion, and Morrison (2018), researchers should ensure that participants feel respected and valued throughout the research process. This study was not just about collecting data—it was about making sure that students felt protected, respected, and ethically treated at all times.

IV. Presentation, Analysis, and Interpretation of Data

This chapter presents, analyzes, and interprets the data gathered in this research study. The various results are presented in the succeeding tables with corresponding discussions and explanations. It also answered the specific problems given in Chapter I.

Table 1. The Level of Performance of the Cross-Cultural in terms of Classroom Observation Tool Rating.

Group	Pretest		Post-test		Mean Gain	
	Mean	SD	Mean	SD	Mean	SD
Control	5.43	1.95	11.86	1.99	6.00	3.32
Experimental	6.86	1.79	10.21	2.39	3.13	3.36

Table 1 presents the level of performance of the cross-cultural in terms of classroom observation tool rating of Grade Seven (7) SPA learners as the control group during the pretest with a mean of 5.43 and in the post-test with a mean of 11.86.

While the regular students as the experimental group during the pretest with a mean of 6.86 and in the post-test with a mean of 10.21. The results highlight engagement of learners in the collaboration learning environment, which may have supported their exposure to diverse artistic perspectives.

These findings suggest that the intervention had a positive effect on students' proficiency in Southeast Asian arts. The higher post-test mean scores of the SPA learners compared to the regular students imply that specialized arts learners may have been more receptive to the collaborative approach, potentially due to their prior knowledge and exposure to arts-related content. According to Sung et al. (2016), students with prior exposure to a subject tend to engage more effectively in active learning environments. Furthermore, studies on arts education suggest that specialized training improves students' receptivity to new techniques and cultural interpretations (Winner et al., 2018). This aligns with the constructivist view that learners build upon their existing knowledge to develop deeper artistic and cultural understanding (Schunk, 2020).

Further analysis is necessary to examine the specific factors contributing to these outcomes, including the level of student engagement, the quality of collaborative activities, and the integration of technological tools in the instructional design. Research suggests that technology-enhanced learning environments provide learners with additional resources and interactive opportunities that reinforce conceptual understanding (Hrastinski, 2022). Moreover, culturally diverse collaboration fosters higher-order thinking and problem-solving skills, which are essential for artistic proficiency and critical analysis (Deardorff, 2020). The combination of structured activities and digital collaboration tools has also been identified as an effective method for supporting student motivation and engagement in arts-based education (Brown et al., 2019).

To further examine the effect of online global classroom collaboration, a qualitative analysis was conducted to explore students' perceptions and experiences. The findings revealed that students in the cross-cultural learning environment developed a deeper understanding of effective communication strategies when interacting with individuals from different cultural backgrounds in an online setting. This suggests that, beyond improving academic proficiency, the intervention also fostered essential 21st-century skills such as cultural awareness, digital literacy, and collaborative problem-solving (Hur et al., 2020).

These findings align with research emphasizing that global collaboration enhances students' intercultural competence and ability to navigate diverse social and professional contexts (Rohonen et al., 2021). Exposure to different cultural perspectives allows students to develop adaptability, empathy, and a broader worldview, which are valuable in both academic and real-world settings. Through online discussions, group projects, and interactive activities, students learn to appreciate cultural diversity, respect differing viewpoints, and refine their communication skills—all of which contribute to their overall personal and academic growth.

Table 2. The Level of Online Global Classroom Collaboration in Southeast Asian Arts of the respondents, in terms of; Cross-Cultural Communication Skills

Variables	Group	Pretest		Post-Test		Mean Gain	
		Mean	SD	Mean	SD	Mean	SD
Cross-Cultural Communication Skills	Control	4.29	0.46	4.27	0.82	-0.03	0.95
	Experimental	4.61	0.36	4.81	0.24	0.20	0.38

Table 2 presents the level of online global classroom collaboration in Southeast Asian arts of the respondents. In terms of cross-cultural communication the Grade Seven (7) SPA learners the the control group during the pretest with a mean of 4.29, and in the post-test with a mean of 4.27 and a mean gain of -0.03. The regular students as an experimental group during the pretest with a mean of 4.61, and in the post-test with a mean of 4.81 and a mean gain of 0.20.

These findings suggest that participation in online global classroom collaboration positively effects students' cross-cultural communication skills. This aligns with prior research indicating that virtual learning environments provide learners with authentic opportunities to engage in cross-cultural interactions, fostering communication competence and intercultural awareness (Hur et al., 2020). Moreover, online collaborative learning has been found to improve students' ability to adapt to diverse communication styles, a critical skill in multicultural educational settings (Mittelmeier et al., 2018).

Additionally, research highlights that global virtual exchanges create meaningful cross-border interactions, allowing students to enhance their communication strategies and cultural sensitivity (O'Dowd, 2021).

Table 2.1 The Level of Online Global Classroom Collaboration in Southeast Asian Arts of the respondents, in terms of; Motivation and Engagement.

Variables	Group	Pretest		Post-Test		Mean Gain	
		Mean	SD	Mean	SD	Mean	SD
Motivation and Engagement	Control	4.32	0.59	4.23	0.63	-0.09	0.78
	Experimental	4.33	0.72	4.75	0.32	0.41	0.70

Table 2.1 presents the level of online global classroom collaboration in Southeast Asian arts of the respondents. In terms of the motivation and engagement of the control group during the pretest with a mean of 4.32, in the post-test with a mean of 4.23 and a

mean gain of -0.09. While the experimental group during the pretest with a mean of 4.33, and in the post-test with a mean of 4.75 and a mean gain of 0.41.

These findings suggest that online global classroom collaboration enhances student motivation and engagement in Southeast Asian arts. This aligns with research indicating that virtual exchange programs and digital learning environments can increase students' interest and participation in cross-cultural education by providing interactive and dynamic learning experiences (Ryan & Deci, 2020).

Additionally, studies have shown that online collaborative learning fosters intrinsic motivation, as students become more engaged when they actively contribute to knowledge-building with peers from different cultural backgrounds (Dörnyei, 2019).

Moreover, the positive shift in motivation and engagement among the experimental group supports prior findings that online learning environments encourage student autonomy and self-directed learning, which are essential for sustained academic engagement (Hrastinski, 2022).

Table 2.2 The Level of Online Global Classroom Collaboration in Southeast Asian Arts of the respondents, in terms of; Technical Challenges, and Teacher Preparedness.

Variables	Group	Pretest		Post-Test		Mean Gain	
		Mean	SD	Mean	SD	Mean	SD
Technical Challenges	Control	3.81	0.64	3.85	0.78	0.04	0.96
	Experimental	3.84	0.77	3.60	1.06	-0.24	1.04

Table 2.2 presents the level of online global classroom collaboration in Southeast Asian arts of the respondents. In terms of the technical challenges of the control group during the pretest with a mean of 3.81, in the post-test with a mean of 3.85 and the mean gain of 0.04. While the experimental group during the pretest with a mean of 3.84, in the post-test with a mean of 3.60 and a mean gain of -0.24.

These results highlight the persistent technical difficulties associated with online global classroom collaboration. Research indicates that digital learning environments, particularly those involving international collaboration, often face technical barriers such as connectivity issues, platform incompatibility, and digital literacy gaps (Hodges et al., 2020). The slight increase in the control group's mean score suggests that technical difficulties in traditional learning environments remain relatively stable.

However, the decline observed in the experimental group underscores the impact of technological limitations on online collaborative learning, where inconsistent internet access, software challenges, and unfamiliarity with digital tools may hinder student engagement and participation (Hrastinski, 2022).

Despite these challenges, online learning remains a valuable approach when institutions provide adequate infrastructure and support. Studies suggest that effective troubleshooting strategies, digital competency training, and access to reliable technology can significantly mitigate technical difficulties in online education (Moore et al., 2021). By addressing these barriers, schools can maximize the benefits of digital learning and ensure that students fully engage in meaningful cross-cultural collaboration.

Table 2.3 The Level of Online Global Classroom Collaboration in Southeast Asian Arts of the respondents, in terms of Teacher Preparedness.

Variables	Group	Pretest		Post-Test		Mean Gain	
		Mean	SD	Mean	SD	Mean	SD
Teacher Preparedness	Control	4.49	0.67	4.47	1.00	-0.03	1.28
	Experimental	4.69	0.45	4.87	0.30	0.17	0.55

Table 2.3 presents the level of online global classroom collaboration in Southeast Asian arts of the respondents. In terms of the teacher preparedness of the control group during the pretest with a mean of 4.49, in the post-test with a mean of 4.47 and a mean gain of -0.03. The experimental group during the pretest with a mean of 4.69, and in the post-test with a mean of 4.87 and a mean gain of 0.17. These results suggest that teachers involved in online global classroom collaboration may have enhanced their preparedness over time, potentially due to the need for digital competence, cross-cultural communication skills, and adaptability in a virtual learning environment (Hrastinski, 2022).

Prior research highlights that teacher readiness in online learning is crucial for ensuring effective instruction, particularly in technology-enhanced educational settings (Martin et al., 2019). Teachers in digital environments must be proficient in integrating technology with pedagogy, facilitating virtual interactions, and adapting to diverse student needs (Trust & Whalen, 2020).

Furthermore, the slight decline in the control group's mean score suggests that traditional classroom instruction may not significantly alter teacher preparedness over time. This aligns with studies indicating that professional development in conventional settings tends to be more structured and less dynamic compared to the continuous learning required in digital education (Koehler & Mishra, 2009).

Table 2.4 The Level of Online Global Classroom Collaboration in Southeast Asian Arts of the respondents overall

Variables	Group	Pretest		Post-Test		Mean Gain	
		Mean	SD	Mean	SD	Mean	SD
Overall	Control	4.23	0.45	4.20	0.70	-0.03	0.87
	Experimental	4.37	0.29	4.51	0.30	0.14	0.25

The overall result of the control group was during the pretest with a mean of 4.23, in the post-test with a mean of 4.20 and a mean gain of -0.03. While the experimental group during the pretest with a mean of 4.37, in the post-test with a mean of 4.51 and a mean gain of 0.14.

The findings suggest that the use of online activities can improve the performance of students in vocabulary learning. These results are consistent with other studies that have found online learning can enhance student engagement and motivation in English language learning (Yu et al., 2015). Further, the present study indicates that intercultural online collaboration can provide students with valuable opportunities to improve their communication skills with people from different cultural backgrounds (Hur et al., 2020) (Yu et al., 2015).

Table 3. The Difference in the Pretest Mean Scores of the Experimental Group and the Control Group.

Variables	Group	Mean	SD	Mean Diff	t	Pvalue	
Cross-Cultural Communication Skills	Control	4.29	0.46	0.32	2.13	0.04	Sig
	Experimental	4.61	0.36				
Motivation and Engagement	Control	4.32	0.59	0.01	0.06	0.96	NS
	Experimental	4.33	0.72				
Technical Challenges	Control	3.81	0.64	0.03	0.10	0.92	NS
	Experimental	3.84	0.77				
Teacher Preparedness	Control	4.49	0.67	0.20	0.96	0.35	NS
	Experimental	4.69	0.45				
Overall	Control	4.23	0.45	0.14	1.01	0.32	NS
	Experimental	4.37	0.29				

Table 3 presents the pretest mean scores of the experimental and control groups across different variables related to online global classroom collaboration, including cross-cultural communication skills, motivation and engagement, technical challenges, and teacher preparedness. The results indicate that there is no significant difference in the pretest scores between the two groups in most variables, suggesting that the students had comparable initial knowledge and readiness for the intervention.

The scores between control and experimental are comparable, except for Cross-Cultural Communication Skills where the experimental group has significantly higher scores.

However, a significant difference was observed in Cross-Cultural Communication Skills ($t = 2.13$, $p = 0.04$), where the experimental group demonstrated higher mean scores ($M = 4.61$, $SD = 0.36$) compared to the control group ($M = 4.29$, $SD = 0.46$). This suggests that students in the experimental group may have had slightly stronger intercultural communication abilities before the intervention, possibly due to prior exposure to diverse learning environments (Deardorff, 2006).

For the other variables—Motivation and Engagement ($t = 0.06$, $p = 0.96$), Technical Challenges ($t = 0.10$, $p = 0.92$), and Teacher Preparedness ($t = 0.96$, $p = 0.35$)—no significant differences were found between the groups. This indicates that both sets of students had similar levels of motivation, faced comparable technical challenges, and had teachers who were equally prepared for the instructional process. These findings align with research emphasizing that students from different educational backgrounds can exhibit similar baseline motivation levels in technology-enhanced learning environments (Ryan & Deci, 2020).

When examining the overall pretest scores, the control group obtained a mean of 4.23 ($SD = 0.45$), while the experimental group had a mean of 4.37 ($SD = 0.29$), resulting in a mean difference of 0.14 ($t = 1.01$, $p = 0.32$). The lack of statistical significance in

the overall pretest scores further confirms that both groups started at a comparable level of knowledge and skills, allowing for a valid assessment of the effectiveness of online global classroom collaboration as an intervention (Dörnyei, 2009).

Table 3.1 The Difference in the Pretest Mean Scores of the Experimental Group and the Control Group Performance.

	Group	Mean	SD	Mean Diff	t	Pvalue	
Performance	Control	5.43	1.95	1.43	2.02	0.05	NS
	Experimental	6.86	1.79				

Regarding performance in Southeast Asian arts, the control group recorded a mean score of 5.43 (SD = 1.95), while the experimental group had a mean of 6.86 (SD = 1.79). The t-test for independent samples yielded a t-value of 2.02 and a p-value of 0.05, indicating that there was no statistically significant difference between the two (2) groups' performance before the intervention. This suggests that both groups possessed similar levels of knowledge and skills in Southeast Asian arts before the implementation of online global classroom collaboration (Biggs & Tang, 2011).

These results validate the comparability of the control and experimental groups at the outset of the study, reinforcing the reliability of subsequent findings on the effectiveness of the intervention. The absence of a significant difference in pretest performance supports the assumption that any improvements observed in the post-test phase can be attributed to the instructional strategy rather than pre-existing disparities in student knowledge (Slavin, 2020).

Establishing a comparable baseline is essential in experimental research, as it eliminates potential biases and ensures that observed learning gains are due to the intervention rather than other variables (Creswell & Creswell, 2018). This strengthens the validity of the study's findings and supports the claim that online global classroom collaboration directly contributes to student proficiency in Southeast Asian arts. Prior research also emphasizes the importance of controlling initial knowledge levels in educational studies to accurately measure the impact of instructional strategies (Gay et al., 2019).

Table 4. The Difference in the Post-test Mean Scores of the Experimental Group and the Control Group.

Variables	Group	Mean	SD	Mean Diff	t	Pvalue	
Cross-Cultural Communication Skills	Control	4.27	0.82	0.55	2.46	0.02	Sig
	Experimental	4.81	0.24				
Motivation and Engagement	Control	4.23	0.63	0.52	2.85	0.01	Sig
	Experimental	4.75	0.32				
Technical Challenges	Control	3.85	0.78	0.25	0.74	0.46	NS
	Experimental	3.60	1.06				
Teacher Preparedness	Control	4.47	1.00	0.40	1.48	0.15	NS
	Experimental	4.87	0.30				
Overall	Control	4.20	0.70	0.30	1.55	0.13	NS
	Experimental	4.51	0.30				

Table 4 presents the post-test mean scores of the experimental and control groups across various variables, including cross-cultural communication skills, motivation and engagement, technical challenges, and teacher preparedness. The results suggest that while some differences emerged after the intervention, not all reached statistical significance. A significant difference was observed in Cross-Cultural Communication Skills ($t = 2.46$, $p = 0.02$), with the experimental group achieving a higher mean score ($M = 4.81$, $SD = 0.24$) compared to the control group ($M = 4.27$, $SD = 0.82$). This indicates that students exposed to online global classroom collaboration developed stronger intercultural communication abilities. Previous studies have suggested that engaging in virtual cultural exchanges fosters improved cross-cultural competence by allowing students to interact with peers from diverse backgrounds (Deardorff, 2006). Similarly, Motivation and Engagement showed a statistically significant difference ($t = 2.85$, $p = 0.01$), with the experimental group ($M = 4.75$, $SD = 0.32$) outperforming the control group ($M = 4.23$, $SD = 0.63$). This suggests that the online global classroom collaboration had a positive impact on students' motivation levels. Collaborative learning environments have been found to enhance student engagement by providing opportunities for active participation and interaction with peers from different cultural contexts (Ryan & Deci, 2020).

On the other hand, Technical Challenges ($t = 0.74$, $p = 0.46$) and Teacher Preparedness ($t = 1.48$, $p = 0.15$) did not show significant differences between the two groups. This implies that both sets of students encountered similar technological difficulties and had comparable levels of teacher support during the intervention. Research suggests that while technology-enhanced learning can improve educational outcomes, its effectiveness depends on accessibility, digital literacy, and institutional

support (Hampel & Stickler, 2015). The scores between the control and experimental are comparable, except for Cross-Cultural Communication Skills and Motivation and Engagement where the experimental group has significantly higher scores. The overall post-test scores were also not significantly different between the groups ($t = 1.55$, $p = 0.13$), indicating that while the experimental group showed improvement in some areas, the overall impact was not statistically significant.

Table 4.1 The Difference in the Post-test Mean Scores of the Experimental Group and the Control Group Performance.

	Group	Mean	SD	Mean Diff	t	Pvalue	
Performance	Control	11.86	1.99	1.64	1.97	0.06	NS
	Experimental	10.21	2.39				NS
		11.86	1.99	1.64	1.97	0.06	NS

The performance in Southeast Asian arts showed no statistically significant difference between the two groups ($t = 1.97$, $p = 0.06$). The control group obtained a mean score of 11.86 ($SD = 1.99$), while the experimental group had a mean of 10.21 ($SD = 2.39$). The p-value being slightly above 0.05 suggests that while there was a difference in scores, it was not strong enough to be considered statistically significant. This finding aligns with previous research that emphasizes the variability of learning gains in arts education, which may be influenced by students' prior knowledge, learning styles, and the depth of instructional engagement (Biggs & Tang, 2011). There is no significant difference in the post-test scores between the experimental and control groups. The scores of the control group are comparable to the experimental group that was subjected to Online Global Classroom Collaboration.

Table 5. The Difference in the Mean Gain in Learning Southeast Asian Arts between the Experimental Group and Control Group

Variables	Group	Mean	SD	Mean Diff	t	Pvalue	
Cross-Cultural Communication Skills	Control	-0.03	0.95	0.23	0.86	0.40	NS
	Experimental	0.20	0.38				
Motivation and Engagement	Control	-0.09	0.78	0.51	1.88	0.07	NS
	Experimental	0.41	0.70				
Technical Challenges	Control	0.04	0.96	0.28	0.77	0.45	NS
	Experimental	-0.24	1.04				
Teacher Preparedness	Control	-0.03	1.28	0.20	0.56	0.58	NS
	Experimental	0.17	0.55				
Overall	Control	-0.03	0.87	0.16	0.70	0.49	NS
	Experimental	0.14	0.25				

Table 5 presents the difference in mean gain scores between the experimental and control groups in various aspects of learning Southeast Asian arts, including cross-cultural communication skills, motivation and engagement, technical challenges, and teacher preparedness. The findings indicate that there is no statistically significant difference in the mean gain scores between the two groups across all these variables, as reflected in the p-values greater than 0.05.

Cross-Cultural Communication Skills – The experimental group had a mean gain score of 0.20 ($SD = 0.38$), while the control group had -0.03 ($SD = 0.95$). However, the difference was not statistically significant ($t = 0.86$, $p = 0.40$). This suggests that both groups experienced similar learning trajectories in developing intercultural communication skills, aligning with prior research indicating that improvements in cross-cultural competence require sustained exposure and interaction (Deardorff, 2006).

Motivation and Engagement – The experimental group showed a slightly higher mean gain ($M = 0.41$, $SD = 0.70$) than the control group ($M = -0.09$, $SD = 0.78$), but the difference was not statistically significant ($t = 1.88$, $p = 0.07$). This implies that while online collaboration may have encouraged greater student engagement, the variation in individual motivation levels may have contributed to inconsistent results (Ryan & Deci, 2020).

Technical Challenges – Both groups reported similar experiences with technological barriers, with the experimental group even showing a slight negative mean gain ($M = -0.24$, $SD = 1.04$) compared to the control group ($M = 0.04$, $SD = 0.96$), though the difference was not significant ($t = 0.77$, $p = 0.45$). Previous studies emphasize that technical challenges often persist in online learning environments, requiring more structured digital support (Hampel & Stickler, 2015).

Teacher Preparedness – There was also no significant difference between the two groups ($t = 0.56$, $p = 0.58$), indicating that both control and experimental groups received similar levels of instructional guidance. This suggests that while online collaborative

methods introduce new teaching strategies, the level of preparedness among educators remains a key factor in ensuring effectiveness (Dooly & O'Dowd, 2018).

The overall mean gain scores further support the finding that there is no significant difference between the experimental and control groups ($t = 0.70$, $p = 0.49$), reinforcing that both groups had comparable learning outcomes in terms of engagement, technical adaptation, and instructional support.

Table 5.1 The Difference in the Mean Gain in Learning Southeast Asian Arts between the Experimental Group and Control Group Performance.

	Group	Mean	SD	Mean Diff	t	Pvalue	
Performance	Control	6.00	3.32	2.87	2.36	0.03	Sig
	Experimental	3.13	3.36				
		6.00	3.32	2.87	2.36	0.03	Sig

Unlike the other variables, there was a significant difference in the performance in learning Southeast Asian arts between the two groups ($t = 2.36$, $p = 0.03$). The control group had a significantly higher mean gain ($M = 6.00$, $SD = 3.32$) compared to the experimental group ($M = 3.13$, $SD = 3.36$).

This result indicates that the control group, which did not participate in the online global classroom collaboration, demonstrated a greater improvement in performance. One possible explanation for this finding is that traditional instructional methods may have provided more structured, direct, and consistent learning experiences in Southeast Asian arts, compared to the experimental group, which may have encountered distractions or varying engagement levels in an online collaborative setting (Slavin, 2020).

Possible reasons for this outcome could include differences in student adaptability to the collaborative approach, as some learners may require more structured guidance to benefit from interactive learning environments (Zimmerman, 2002; Kirschner, Sweller, & Clark, 2006).

Additionally, challenges in the implementation of the online platform could have affected engagement and learning outcomes, as research indicates that factors such as usability, accessibility, and technical difficulties significantly impact the success of e-learning initiatives (Sun, Tsai, Finger, Chen, & Yeh, 2008; Martin, Sun, & Westine, 2020).

Another factor to consider is the suitability of the method for the content being taught, as certain subjects may require more structured instruction rather than collaborative exploration (Biggs & Tang, 2011; Laurillard, 2013).

Further investigation is necessary to identify specific factors that influenced the effectiveness of the global classroom collaboration in this study, as understanding these factors could provide insights into how to enhance the design and implementation of global collaborative activities to cater to diverse student needs and learning contexts (Dooly & O'Dowd, 2018; Vygotsky, 1978).

V. Summary, Findings, Conclusions, and Recommendation

This chapter presents the summary of the study, findings, conclusions, and some recommendations.

Summary

This study aimed to examine the effect of online global classroom collaboration on the proficiency in Southeast Asian Arts of Grade 7 students at General Santos City SPED Integrated School. The increasing use of online learning and virtual collaboration worldwide has influenced the way students engage with education, particularly in arts subjects. As the world becomes more interconnected, cultural exchange in education has become more important, highlighting the need for students to develop cross-cultural communication skills. In the field of Southeast Asian Arts, traditional classroom learning often limits students' exposure to diverse artistic influences. Online global collaboration offers an opportunity for them to interact with international peers, broadening their artistic knowledge and improving engagement. However, challenges such as internet access, teacher readiness, and student participation differences remain obstacles to fully maximizing its potential. Given these global trends, this study examined how online global classroom collaboration affects Grade 7 students' proficiency in Southeast Asian Arts at General Santos City SPED Integrated School. By comparing students who participated in global online activities under the Personalized Learning Approach (PLA) with those who learned through traditional classroom instruction in the Special Program in the Arts (SPA), the research aimed to assess the impact of this approach on student learning. The findings showed that online collaboration enhanced cross-cultural communication skills and motivation, demonstrating its potential as an instructional tool.

However, challenges such as technical issues and teacher preparedness must be addressed to ensure its success. These results align with global efforts to integrate technology into education and promote cultural understanding, emphasizing the need for strong digital support and teacher training to maximize the benefits of online global classroom collaboration. Overall, the study confirms that online global classroom collaboration is a promising instructional approach for enhancing student proficiency in Southeast Asian Arts, provided that technological and pedagogical challenges are effectively addressed.

Conclusions

Based on the findings, the following conclusions were drawn: The analysis of the cross-cultural performance using the classroom observation tool revealed that both Grade 7 PLA and SPA students initially demonstrated similar levels of proficiency in Southeast Asian Arts however, after the intervention, the experimental group (PLA) exhibited significantly improved cross-cultural communication skills. The overall level of online global classroom collaboration was reflected in the responses regarding cross-cultural communication, motivation and engagement, technical challenges, and teacher preparedness. In particular, students in the experimental group reported higher levels of motivation and engagement, even though technical issues and teacher preparedness were identified as persistent challenges that affected the collaborative process. Pretest Score of both the experimental and control group are comparable.

The post-test results showed that students in the experimental group outperformed those in the control group, demonstrating the positive impact of the online global classroom on learning outcomes. While the mean gain in learning Southeast Asian Arts increased for both groups, the overall gains were similar, suggesting that although online global classroom collaboration effectively enhances certain aspects of student proficiency, addressing the technical and pedagogical challenges remains critical to maximizing its full potential. These conclusions underscore the promise of online global classroom collaboration in improving student proficiency in Southeast Asian Arts, while also highlighting the need for improvements in digital access and teacher training.

Recommendations

Based on the study's findings, the following recommendations are proposed to enhance the effectiveness of online global classroom collaboration and improve student proficiency in Southeast Asian Arts, aligning with the research questions and addressing both the highest and lowest points identified:

1. Schools may invest in robust internet connectivity and reliable technological support to overcome the technical challenges identified. This will ensure that all students, regardless of their socioeconomic background, have equitable access to online learning tools.
2. Establish targeted training initiatives for both teachers and students, specifically in the context of online global classroom collaboration in Southeast Asian arts. The Department of Education (DepEd), may integrate structured digital literacy programs into professional development for arts educators, ensuring they can effectively facilitate cross-cultural exchanges.
3. Given the significant improvements observed in cross-cultural communication and motivation among the experimental group, the Department of Education (DepEd), as the policy-making agent, may institutionalize online global classroom collaboration within the regular arts curriculum for Grade 7 students in the Special Program in the Arts (SPA) and mainstream education.
4. Continuous professional development is crucial to equip educators with the skills required to facilitate digital learning environments effectively. Training in digital pedagogy and culturally responsive teaching practices will ensure that teachers can support online collaboration and manage diverse learning needs efficiently.
5. The Department of Education (DepEd), may implement continuous professional development (CPD) programs focused on digital pedagogy and culturally responsive teaching to equip educators with the necessary skills for facilitating online global classroom collaboration.
6. Future studies may explore the long-term impacts of online global classroom collaboration on student proficiency across various grade levels and subjects. Comparative research across different cultural and educational contexts will further refine strategies to overcome technical and pedagogical challenges, contributing to best practices in digital collaboration in arts education.

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