


Comparative analysis of planning with community resources across learning areas in the Australian Curriculum: Impacts, strategies and challenges

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The study reported on in this paper analysed how community resources are integrated into four areas of the Australian Curriculum: Languages (Chinese), The Arts (Visual Arts), Sciences, and Humanities and Social Sciences (Economics and Business). It examined four case studies to compare the use of rural resources and local partnerships for achieving educational goals and fostering sustainable practices for teaching the Asia and Australia's Engagement with Asia (AAEA) Cross-Curriculum Priority in the Australian Curriculum. Using a dimensional comparative framework, the study evaluated community resources, engagement strategies, educational objectives and impacts on lesson planning. Findings indicate that effective community engagement enriches educational experiences by enhancing linguistic skills, creative expression, scientific inquiry and economic understanding. The study highlights the benefits of adapting educational strategies to local contexts and notes that such integrations support educational quality and sustainability. It concludes that leveraging diverse community resources is essential for improving educational outcomes and promoting sustainability across disciplines.

Keywords: community resources; Australian Curriculum; educational Sustainability; comparative analysis

INTRODUCTION

Australia is described as ‘the most successful multicultural society in the world, uniting a multitude of cultures, experiences, beliefs, and traditions’ (Australian Government, 2017, p. 7). The country has benefited from the contributions of millions of migrants over centuries, shaping various aspects of Australian society. Throughout the extensive history of integration, successive generations from diverse cultural communities have preserved rich historical, social and cultural resources. These resources offer valuable evidence of their contributions and demonstrate their integration into the national fabric. They are key assets enhancing Australia’s capacity to develop a sustainable multicultural society.

The Asia and Australia’s Engagement with Asia (AAEA) Cross-Curriculum Priority in the Australian Curriculum reflects Australia’s extensive engagement with Asia in social, cultural, political and economic spheres (Australian Curriculum, Assessment and Reporting Authority, 2024). Despite its importance, studies indicate that implementing AAEA content in the Curriculum remains limited. Previous research found that the content in the Australian Curriculum that has been included to support the AAEA is unevenly distributed across learning areas, with gaps in alignment between the national curriculum and state-level adaptations (Zhang et al., 2020). Furthermore, the lack of adequate teaching resources and professional development in culturally responsive pedagogy creates challenges for teachers seeking to implement the AAEA (Moroney, 2023). The absence of sufficient resources places additional burdens on teachers and limits the ability to embed AAEA effectively in their lessons. Discussions surrounding Asia literacy also highlight instances of historical and contemporary cultural bias against Asian communities, underscoring the need for improved cultural education (Al-Natour, 2022). Addressing the deficiency of quality teaching resources for the AAEA requires innovative approaches to integrating the community into the curriculum, marking it an urgent agenda for research and practice.

The study reported on in this paper provides a case-oriented dimensional comparative analysis of the integration of community resources within four distinct learning areas of the Australian Curriculum: Languages (focusing on Chinese), The Arts (Visual Arts), Sciences and Humanities and Social Sciences (specifically Economics and Business). A dimensional comparative framework guides this study, focusing on four key dimensions: Types of community resources used, community engagement strategies, educational objectives addressed, and impact on lesson planning considerations. This framework enabled a detailed assessment of how community resources contribute to educational quality and sustainability across multiple subjects.

By examining the case studies, the study provided insights for educators by identifying effective strategies for integrating community resources within different learning areas. The comparative approach offers subject teachers cross-disciplinary insights into community-engaged pedagogy, allowing them to adapt successful strategies from other areas to their own practice. This study aligns with the Quality Education for Sustainable Futures: Comparative Dialogues theme by exploring how community-engaged pedagogy contributes to sustainability education across different learning areas. Each case study illustrates how utilising local resources enriches lesson content and fosters sustainable practices by promoting community connections, cultural heritage preservation and real-world problem-solving. These educational practices encourage students to engage meaningfully with their communities, contributing to social and environmental sustainability. The insights from these distinct learning areas collectively support a dialogue on sustainable education, emphasising the potential of community-engaged

pedagogy to shape future-ready learners and enhance the role of education in building sustainable futures.

The research questions guiding this study were:

1. How are community resources integrated into lesson planning across four distinct learning areas of the Australian Curriculum?
2. What are the impacts, strategies, and challenges associated with this integration in promoting educational quality and sustainability in alignment with the AAEA?

LITERATURE REVIEW

This literature review examines the role of community-engaged pedagogy in enhancing lesson planning and teaching practices, highlights the benefits and challenges identified in existing Australian research on the impacts and gaps in community engagement in education, and introduces the dimensional comparative framework used to evaluate the integration of community resources across various learning areas.

Community-engaged pedagogy in lesson planning

Community-engaged pedagogy in lesson planning involves the deliberate integration of community resources, knowledge, and experiences into the educational process. This pedagogical approach prioritises collaboration between educators and community members, ensuring learning experiences are relevant to students' lives and responsive to local contexts and needs (Coles-Ritchie et al., 2022; Jiang & Tham, 2023).

The approach emphasises the shared development of lesson content through the active participation of local organisations and community stakeholders (Smith & Sobel, 2010). Such collaboration ensures that lesson plans are culturally relevant, address the needs and interests of the community, and incorporate local knowledge and resources (Epstein, 2018; Khalifa, 2018). Engaging the community in lesson planning fosters inclusive educational practices by allowing students to connect learning with real-world situations, reinforcing educational outcomes while promoting greater cultural awareness and community cohesion. It also enables educators to tailor instruction to better align with the values and aspirations of the community, enhancing student engagement and learning outcomes (Epstein, 2018). At the heart of community-engaged pedagogy is the belief that education should not be confined within the walls of a classroom but should connect students to their lived experiences and surroundings through meaningful interaction (Hopkins, 2018; Lowery & Jenlink, 2019; Quay, 2013). This dynamic approach empowers students to see themselves as contributors to their communities and encourages active, participatory learning rather than passive information absorption.

In the context of lesson planning, community-engaged pedagogy requires educators to thoughtfully incorporate local resources and learning area expertise into their teaching strategies. Doing so enriches lessons with diverse perspectives and knowledge that reflect the community's unique cultural, social and environmental characteristics (Campion, 2018; Epstein, 2018). Moreover, it promotes sustainability by reinforcing local knowledge systems and fostering long-term partnerships between schools and communities. In summary, community-engaged pedagogy in lesson planning represents a powerful educational approach that bridges the gap between the classroom and the community, enhancing students' learning experiences while fostering meaningful, reciprocal relationships between schools and their communities.

Existing research and the Australian context

In the Australian context, several studies have examined the impact of community engagement on educational outcomes in key learning areas. For instance, teaching Chinese with the involvement of local communities enhances linguistic skills and intercultural understanding. By engaging with local Chinese-speaking communities and cultural organisations, educators can provide students with authentic language learning experiences deeply connected to Chinese Australians' cultural and historical heritage (Orton & Scrimgeour, 2019; Zeng & Ehrich, 2024). This approach supports language acquisition and helps students appreciate the broader cultural narratives. However, research focusing specifically on leveraging rural resources in Chinese language education remains limited, especially in regional areas where these resources are underutilized (Chen, 2015; Scrimgeour, 2014).

Similarly, research in science education highlights the benefits of community partnerships in strengthening STEM learning. These partnerships provide co-curricular development opportunities, teacher professional growth, and access to community expertise that enrich curriculum design (Lopez et al., 2016; Timko et al., 2023; Townley, 2020). Such collaboration also improves teachers' professional development and pedagogical content knowledge (Aslam et al., 2019; Kelley et al., 2020; Kleinschmit et al., 2023). Situating STEM education within the community makes lessons more relevant to students' lives, increases engagement and fosters critical decision-making skills (Bølling et al., 2019; Flanagan et al., 2019; Holmes et al., 2021). Some studies also found that localised learning for STEM pedagogy enhances students' decision-making skills in real-world situations, nurturing students into active and informed citizens about STEM-related societal issues (e.g., Herman et al., 2019; Kim et al., 2020). Additionally, localised STEM learning promotes pride, respect and social responsibility, encouraging students to advocate for their communities and environment (Flanagan et al., 2019; Herman et al., 2019).

In Visual Arts education, intercultural understanding plays a vital role in fostering creativity and cultural awareness (Lum & Wagner, 2019). The Australian and Victorian Curriculum emphasise the significance of visual arts in cultivating creativity, critical thinking and respect for artistic traditions. However, the Australian Curriculum gives greater focus to culture, identity and connections to heritage, particularly for First Nations Australians, while the Victorian Curriculum places more emphasis on personal expression and experimentation (Australian Curriculum, Assessment and Reporting Authority [ACARA], 2024; VCAA, 2024). Although the Victorian Curriculum encourages intercultural engagement, it has gaps in its explicit inclusion of Asia-Australia engagement beyond early primary years (Foundation to Year 2) (VCAA, 2024).

In business education, community-engaged pedagogy offers mutual benefits for students, educators, and communities by connecting theory with real-world practice (James & Schmitz, 2011). It encourages critical thinking on the social impact of financial decisions and promotes ethical actions. Community involvement also enhances curriculum relevance and fosters professional development through networking and collaboration (Tunjungsari, 2015). However, challenges include resistance to shifting from traditional profit-driven business models toward more ethical approaches, navigating cultural differences and building stakeholder trust (Sudirjo et al., 2024; Wittmer, 2004). Effective collaborations with a broad network of stakeholders—including educational institutions, community groups, and government agencies—are essential to integrate diverse perspectives into the learning process (Tunjungsari, 2015).

Theoretical framework: Dimensional comparative framework

This study utilised a dimensional comparative framework to analyse the integration of community resources within four distinct learning areas of the Australian Curriculum. A dimensional comparative framework provides a structured approach for systematically comparing multiple cases along predefined dimensions or criteria (Phillips & Schweisfurth, 2014; Wagner, 2021). In this study, the framework facilitated a cross-disciplinary comparison by focusing on four key dimensions: Resources Used, Engagement Strategies, Educational Objectives and Planning Considerations.

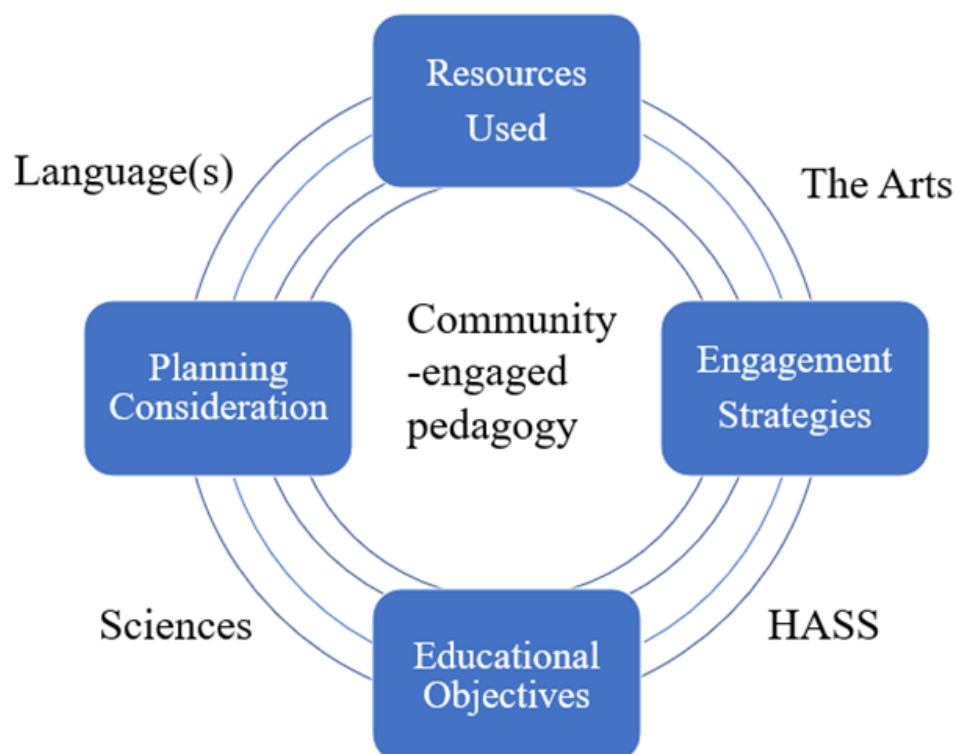


Figure 1: Comparative framework for community engagement across four learning areas

Figure 1 illustrates the dimensional comparative framework employed in this study. It shows how the four learning areas (presented as case studies) were analysed through the four dimensions, all framed within the concept of Community-Engaged Pedagogy. This central theme underscores the study's focus on how the dimensions work together to improve educational practices by integrating community resources. By using the same dimensions across each case study, the framework enabled a nuanced analysis of commonalities and differences in how a community-engaged approach is implemented in lesson planning. This structured comparison helped identify which strategies and resources are effective within specific learning contexts (Bartlett & Vavrus, 2017; Chen & Hsu, 2020; Wagner, 2021). Ultimately, the framework provided valuable insights into the applicability and impact of community engagement within different subjects, offering practical recommendations for educators.

METHODOLOGY

As noted, this study applied a case-oriented dimensional comparative analysis to explore the integration of community resources within four learning areas of the Australian Curriculum. Each learning area served as a case study focusing on four dimensions: types of community resources used, community engagement strategies, educational objectives addressed and the impact on lesson planning considerations. This approach allowed for detailed examinations within each learning area and cross-disciplinary comparisons, providing practical insights for educators across subjects (Porta, 2008; Rihoux, 2008).

The comparative dimension was intentional, aligning with this journal's focus by offering transferable insights across learning areas. This structured comparison helps teachers adapt community engagement strategies to suit different subjects, offering practical guidance for lesson planning.

Data collection

The research team conducted multiple visits to the Melbourne regional area (Ararat and Ballarat) to establish connections with schools, community members, museums and libraries. The visits were crucial for identifying suitable resources and understanding how these could enhance lesson planning within each subject area. The team also engaged with educators, community leaders and cultural organisations to explore opportunities for collaboration and identify local knowledge that could support curriculum objectives.

Following these visits, the team reviewed the Australian and Victorian Curriculum in the relevant learning areas. The review aimed to ensure that the selected community resources aligned with educational standards and addressed each learning area's specific needs and goals, providing a coherent framework for integrating local resources into classroom teaching. The primary aim was to design lesson plans that connect local resources with curriculum objectives, offering students a deeper and more meaningful learning experience.

Data analysis

The analysis in this study was structured around key dimensions using the theoretical framework outlined in the above literature review. This dimensional approach ensured that each case study was evaluated consistently, allowing for meaningful comparisons across subjects.

First, the study identified and categorised the various community resources utilised within each learning area, including cultural organisations, local businesses and environmental sites, providing insight into the kinds of resources available to educators and how these were leveraged to enhance learning. Second, the study examined the methods used to engage these resources, such as partnerships, cultural exchanges and collaborative projects. These data analysis strategies were essential for determining the extent to which community resources were embedded into teaching practices (Phillips & Schweisfurth, 2014; Wagner, 2021).

Third, the study focused on assessing the specific educational objectives targeted through community resources, ensuring that the objectives aligned with the broader aims of the Australian Curriculum. This dimension demonstrated how community engagement contributes meaningfully to students' academic outcomes. Finally, the study explored how integrating community resources influenced lesson planning, including examining adjustments made to curriculum delivery to accommodate community input and improve learning outcomes. The

analysis highlighted the flexibility required of educators and illustrated the practical implications of using local resources in lesson planning.

FINDINGS

Case Study 1: Languages (Chinese Mandarin)

Year Level: Upper Primary

Lesson Plan Summary:

This case study examined a one-hour lesson plan within the upper primary Chinese language curriculum, focusing on the historical significance of Ararat during the Gold Rush era. The lesson aims to integrate language learning with cultural understanding by connecting key Chinese vocabulary to the experiences of Chinese immigrants in Ararat. Students were introduced to vocabulary related to the Gold Rush, such as 'gold', 'adventure', and 'Chinese people'

The lesson incorporated multimedia content, including short videos and images of Ararat's historical sites, to help students contextualise the vocabulary within the broader narrative of Chinese migration to Australia. In collaboration with local Chinese cultural organisations, students engaged in language practice in meaningful, community-based contexts, enhancing their linguistic proficiency and cultural awareness. Role-playing activities were incorporated, simulating interactions between students and local community members, allowing students to use their language skills in practical, real-world scenarios. These activities were aligned with the curriculum objectives to ensure that students could connect their classroom learning with the cultural and historical relevance of Chinese migration to Australia.

Case Study 2: The Arts (Visual Arts)

Year Level: Foundation to Year 2

Lesson Plan Summary:

This visual arts lesson was designed to engage Foundation to Year 2 students in exploring Chinese cultural symbols through hands-on artistic activities. The focus was on the mythological significance of dragons in Chinese culture and the symbolic use of red and gold, representing good fortune and prosperity. Students created artworks inspired by these cultural motifs, using drawing and painting exercises to explore personal interpretations of the symbols.

The lesson utilised resources from the Gum San Chinese Heritage Centre (GSCHC) and the National Gallery of Victoria (NGV), where students were exposed to various Chinese artworks and cultural narratives. The lesson deepened students' understanding of Chinese culture and artistic traditions by incorporating discussions and visual references from these sources. Including community-based projects and practical art activities fostered creative expression and intercultural understanding, reinforcing personal connections with Chinese culture.

Case Study 3: Sciences

Year Level: Year 9 or 10 Science

Lesson Plan Summary:

This science lesson focused on the chemical processes involved in fermentation, using kimchi production as a practical example. Designed for Year 9 or 10 students, the lesson connected scientific theory with real-world applications, allowing students to explore key concepts such as chemical reactions, enzymes, reaction rates and aerobic versus anaerobic processes. The lesson was further enriched by an industrial visit to a Melbourne-based kimchi-making company, where students observed the fermentation process in a commercial environment.

This hands-on experience allowed students to see the scientific principles they had learned in action. It provided a deeper understanding of fermentation's cultural and practical significance in Korean cuisine. The lesson plan combined in-class experiments with the industrial visit, reinforcing curriculum objectives by relating scientific content to real-world examples. This approach sparked student interest in food science and technology and deepened their understanding of how science applies in practical contexts. Combining classroom learning and real-world observation gave students a well-rounded educational experience, demonstrating how scientific concepts function in laboratory and everyday settings.

Case Study 4: Humanities and Social Sciences (Economics and Business)

Year Level: Year 9 or 10 Economics and Business

Lesson Plan Summary:

This lesson in the HASS curriculum focused on the 'Ethics in Labour' theme, using historical and contemporary examples to explore labour practices. The lesson drew on resources from the Sum Gum Sam Chinese Heritage Museum, where students learned about the experiences of Chinese labourers during the mid-1800s Gold Rush in Ararat. Key topics included the poor working conditions, discrimination and lack of labour rights faced by Chinese workers during this period.

To connect historical labour issues with contemporary challenges, the lesson incorporated a documentary titled 'The True Cost', which examines the global impact of modern labour practices. Students were encouraged to compare the historical conditions with present-day labour practices, fostering critical thinking about the ethical dimensions of labour. The lesson plan emphasised the role of economics in shaping labour conditions, prompting students to reflect on how consumer behaviour and economic policies influence modern labour ethics.

By examining historical and contemporary perspectives, students developed a deeper understanding of the social and ethical implications of labour practices across time. This lesson plan encouraged them to think critically about their role as ethical consumers and to engage meaningfully with the topic of labour rights in local and global contexts.

Bringing it together: Comparative overview of case study findings

The four case studies illustrate the diverse ways in which community resources can be leveraged across different learning areas to enrich educational experiences. Each case highlighted how community partnerships contribute to meaningful, real-world learning by aligning local resources with curriculum goals.

Table 1 provides a comparative analysis of these approaches, highlighting the key community resources used, engagement strategies employed, educational objectives addressed and the resulting impact on lesson planning considerations in each learning area.

Table 1: Comparison of community engagement in lesson planning across four learning areas

Learning area	Types of community resources used	Community engagement strategies	Educational objectives addressed	Impact on lesson planning considerations
Languages (Chinese)	Chinese cultural organisations, Chinese-speaking communities, local businesses (e.g., Chinese restaurants)	Guest speakers, cultural exchanges, workshops	Enhance linguistic proficiency, deepen cultural understanding	Incorporation of real-world language use, cultural immersion activities
The Arts (Visual Arts)	Local art galleries (NGV), Chinese cultural centres (GSCHC), local artists	Visits to galleries, collaborations with artists, community art projects	Foster creative expression, enhance intercultural understanding	Integration of practical art experiences, connection to cultural context
Sciences	Local Korean communities, Industrial visit to a kimchi-making company	Industrial visit, hands-on learning opportunities	Understand chemical reactions, relate science to real-world processes	Alignment with curriculum objectives, inclusion of hands-on experiments
Humanities and Social Sciences (Economics and Business)	Sum Gum Sam Chinese Heritage Museum, historical documentaries, local businesses	School excursions, use of museum resources, multimedia content	Develop understanding of labour ethics, promote critical thinking	Inclusion of multimedia resources, emphasis on ethical and social awareness

The comparisons demonstrate community-engaged pedagogy's flexibility in meeting different subjects' unique needs while fostering sustainable educational practices. By identifying shared strategies and challenges across learning areas, this analysis provides practical insights for educators seeking to incorporate community resources into diverse teaching contexts.

DISCUSSION

The findings from the four case studies provide valuable insights into how community resources can be effectively integrated into lesson planning across different learning areas of the Australian Curriculum. This study's comparative approach identified shared themes, highlighting the opportunities and challenges of community-engaged pedagogy in different subject areas.

Enhancing lesson contents and building community connections

One of the most significant outcomes observed across all case studies is enriching lesson content by integrating community resources (Timko et al., 2023). This approach deepens students' academic understanding and makes content knowledge more vivid, authentic and easier to relate to by embedding it within real-world experiences (McCarty & Lee, 2014).

Moreover, community-engaged pedagogy promotes two-way benefits: students build stronger connections with their community while local resources are revitalised through educational partnerships. Thus, it fosters a sense of belonging, pride, and mutual respect beyond the classroom (Epstein, 2018; Sleeter, 2012). By engaging with cultural organisations, community experts and local businesses, students connect their learning with lived experiences, gaining deeper insight and motivation.

For example, in the Languages case study, the involvement of the Chinese-speaking community and cultural organisations provided immersive learning experiences. Students could practice language skills in a real-world context by interacting with the Gum San Chinese Heritage Centre. This engagement enhances students' linguistic proficiency and develops a deeper understanding of the historical and cultural significance of the Chinese community in Australia. The students' abilities to connect their classroom learning to local heritage reinforced their sense of belonging by allowing them to see how their education reflects the experiences and contributions of people within their community (Gay, 2010). Moreover, the activities with community members fostered relationships with individuals who shared valuable cultural knowledge and experiences, further strengthening students' personal and cultural identities (Bernardes et al., 2024; Jiang & Tham, 2023).

Similarly, in The Arts, community-based projects and practical art experiences allowed students to explore cultural symbols and artistic traditions. Using resources from the National Gallery of Victoria and the Gum San Chinese Heritage Centre, students connected their creative expression to local cultural narratives, making the lesson content more tangible and allowing students to explore personal and collective identities through art (Garcia & Ouis). As students collaborated with local artists and participated in community art projects, they experienced a sense of pride and belonging, seeing their artistic work reflected in broader community narratives (Lum & Wagner, 2019). This deeper engagement with art fosters creative expression and intercultural understanding, helping students appreciate their community's diverse heritage.

The Sciences case study demonstrated how linking scientific concepts to real-world applications can make learning more relevant and accessible while fostering community ties (Bølling et al., 2019). The industrial visit to a kimchi-making company provided a practical example of chemical processes, offering insight into cultural practices valued by the local Korean community. This hands-on experience made abstract scientific concepts easier to understand and more engaging and helped students appreciate the scientific contributions of their community (Herman et al., 2019; Timko et al., 2023). By observing scientific practices in a real-world setting, students develop a greater appreciation for local expertise and the relevance of scientific knowledge in their daily lives. This tangible connection to science encourages students to see themselves as part of a broader scientific and cultural ecosystem, fostering curiosity and a sense of belonging.

In the HASS case study, integrating historical resources from the Sum Gum Sam Chinese Heritage Museum with contemporary discussions on labour ethics provides students with a comprehensive understanding of economic principles and social justice issues (Tunjungsari, 2015). The lesson used comparative examples to explore themes of economic justice and ethical labour practices, making the content relevant to students' present-day experiences. By comparing the working conditions faced by Chinese labourers during the Gold Rush with current global labour issues through the documentary 'The True Cost', students were encouraged to reflect on the ethical and social implications of economic decisions (Wittmer, 2004). Exploring labour practices helped students understand how economic policies shape

social conditions while fostering empathy and social responsibility. Students saw themselves as active participants in shaping their community's ongoing narrative, contributing to a deeper sense of social awareness and belonging (Guajardo et al., 2015).

Strategies for community engagement

The strategies employed across the different learning areas were carefully designed to integrate community resources into the educational process, ensuring that the resources were relevant and aligned with curriculum objectives (Khalifa, 2018). As illustrated in Table 1, each learning area employed a unique combination of community resources and engagement strategies to achieve educational objectives effectively.

First, using community experts and guest speakers was a powerful strategy, particularly in the Languages case study. Inviting Chinese-speaking community members to share their experiences and knowledge enriched the lesson with authentic language use in real-world contexts. This direct engagement allowed students to practice their language skills in a practical, engaging environment while gaining valuable cultural insights that deepened their understanding of the language's relevance and significance (Wang & Chik, 2022; Zeng & Ehrich, 2024). Second, organising educational excursions and field visits proved essential for connecting classroom learning with real-world applications. In the Sciences case study, a visit to a kimchi-making company allowed students to observe the fermentation process firsthand, making abstract scientific concepts tangible, accessible and easier to grasp (Lopez et al., 2016). Similarly, the HASS case study utilised an excursion to the Sum Gum Sam Chinese Heritage Museum, where students explored historical artifacts and narratives related to Chinese labourers during the Gold Rush. These excursions enhanced students' understanding of the subject matter and made the learning experience dynamic, interactive and more engaging.

Third, integrating community resources into creative projects was particularly effective in The Arts (Visual Arts) case study. Students drew inspiration from local cultural symbols and artistic traditions encountered through visits to cultural centres and galleries, such as the National Gallery of Victoria and the Gum San Chinese Heritage Centre. By incorporating these community resources into their artwork, students were able to explore cultural themes in a hands-on manner, deepening their understanding of the artistic and cultural context while fostering a stronger connection to their community (Jiang & Tham, 2023). Fourth, using multimedia and digital resources enhanced the learning experience, as demonstrated in the HASS case study. Historical documentaries and contemporary films were integrated into the lesson to provide students with diverse perspectives on labour ethics and economic principles, making the content more relatable and engaging and preparing students for the increasingly digital nature of education and the workforce (Sudirjo et al., 2024; Tunjung Sari, 2015).

Finally, facilitating cultural exchanges and interactive workshops was crucial in the Languages and The Arts (Visual Arts) case studies. Cultural exchanges allowed students to immerse themselves in Chinese culture, interacting with community members and participating in traditional activities that enriched their language learning experience (Wang & Chik, 2022). In Visual Arts, workshops led by local artists provided students with opportunities to develop creative skills while gaining insights into the cultural significance of their work. These interactive experiences helped build stronger connections between students and their community, reinforcing the mutual benefits of community-engaged pedagogy (Jiang & Tham, 2023). As detailed in Table 1, these approaches highlight the diverse ways in which community resources can be integrated into lesson planning to achieve various educational objectives

across different learning areas. By tailoring these strategies to the needs of each subject, educators create meaningful, relevant learning experiences that connect students with their communities, fostering engagement, belonging and deeper understanding.

Challenges and considerations in lesson planning

While the benefits of community-engaged pedagogy are clear, its implementation presents several challenges that educators must carefully navigate to ensure meaningful and sustainable integration of community resources into lesson planning. Successful integration requires careful planning, flexibility and the development of strong partnerships between schools and community stakeholders.

One of the significant challenges is the logistical complexity of coordinating real-world experiences. For example, in the Sciences case study, organising an industrial visit to a kimchi-making company required meticulous planning to ensure the experience was educationally relevant and logistically feasible. Educators had to align the learning objectives with the activities provided by the community partner, ensuring that the visit complemented rather than distracted from classroom learning (Barili & Byram, 2020; Mattix Foster & Cunningham, 2015). This type of external engagement often depends on the strength of the partnership between the school and the community resource, as well as the ability of educators to adapt their lesson plans to accommodate these real-world learning opportunities. Similarly, the Visual Arts case study highlighted the logistical demands of organising visits to galleries and cultural centres, particularly for younger students. Such visits require careful coordination with external organisations and considerations of transportation, safety, and supervision. The logistical complexity increases when the visits involve large groups or require extensive travel, making planning essential to ensure these experiences align with curriculum objectives and enhance the learning experience (Bringle et al., 2011).

Another challenge is the need for educators to align community resources with curriculum objectives to ensure the engagements contribute meaningfully to student learning. In the HASS case study, using historical and contemporary resources, such as multimedia and documentary films, careful selection was needed to ensure they effectively conveyed the intended ethical and economic concepts. Educators faced the task of ensuring students could draw connections between past labour practices and modern issues, making the lesson content relevant to their lives while meeting curriculum goals (Kelley et al., 2020).

The Languages case study also emphasised the importance of flexibility in lesson planning. Incorporating role-playing exercises and cultural immersion activities, while enriching, required additional time and resources. These adjustments posed challenges within a tightly scheduled curriculum, necessitating carefully considering how to fit these activities into the school timetable (Scrimgeour, 2020). Educators had to adapt their lesson plans to accommodate these activities without compromising other learning objectives. Ensuring these activities were accessible to students with different levels of prior knowledge and cultural backgrounds posed another challenge, underscoring the importance of inclusivity in community-engaged pedagogy.

Addressing these challenges requires collaborative planning, adaptive teaching strategies and sustained engagement between schools and community partners. Despite these difficulties, the benefits of community-engaged pedagogy—enriching lesson content, fostering student engagement and building community connections—outweigh the logistical and curricular challenges.

Implications for educational practice

The insights gained from this study have several significant implications for educational practice. First and foremost, the findings suggest that community-engaged pedagogy has the potential to greatly enhance student engagement and learning outcomes by providing authentic, contextually relevant experiences. By integrating local resources into their lesson planning, educators can create a richer, more dynamic curriculum that resonates with students, making learning more engaging and relevant to their lives (Epstein, 2018).

The study also highlights the importance of professional development in equipping educators with the skills and knowledge needed to collaborate effectively with community partners. Teachers need to be equipped with the skills and knowledge necessary to collaborate effectively with community partners, select appropriate resources and integrate these into their teaching in ways that align with curriculum objectives. Professional development focused on community engagement strategies, resource selection, and partnership-building will equip educators to overcome the challenges identified in this study and fully leverage the opportunities for community-engaged pedagogy. Additionally, the findings highlight the need for schools and educational institutions to foster strong partnerships with local communities (Aslam et al., 2019; Jiang & Tham, 2023). Schools should actively cultivate networks with local organisations, businesses, cultural centres, and community experts to ensure that educators have reliable access to these resources for lesson planning. These partnerships create sustainable networks that enrich lesson content and strengthen the relationship between schools and their communities.

Finally, the study suggests that community-engaged pedagogy can be adapted and scaled across different educational contexts. While the case studies focused on specific learning areas, the principles and strategies discussed could be applied more broadly, including in rural or under-resourced areas where access to community resources may be limited. Future research should explore how to implement these strategies effectively in such contexts, ensuring that all students—regardless of location—can benefit from community-engaged pedagogy.

CONCLUSION

In conclusion, this study illustrates the value of community-engaged pedagogy to enhance educational quality and sustainability across diverse learning areas. By leveraging local resources and fostering partnerships between schools and communities, educators can create richer, more engaging learning experiences that meet curriculum objectives and contribute to the broader goals of fostering culturally responsive and contextually relevant education. These practices play a critical role in cultivating students' senses of belonging and connection to their communities, reinforcing social cohesion and fostering sustainable relationships. By engaging students with real-world challenges and local contexts, community-engaged pedagogy helps develop essential skills, such as critical thinking, adaptability and collaboration, preparing students to address future challenges. This approach aligns with the principles of sustainable development, positioning education as a key driver for promoting sustainability at the individual and community levels. The challenges identified in this study underscore the importance of sustained support and professional development for educators to effectively integrate community resources into lesson planning. Ongoing efforts are needed to equip teachers with the necessary tools and strategies for building strong community partnerships and aligning external resources with curriculum goals. Additionally, further research is essential to

explore the most effective strategies for scaling community-engaged pedagogy across different educational contexts, including rural and under-resourced areas.

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