

Integrating Music into Early Childhood Curriculum: Strategies for Enhancing Learning and Development

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Abstract

This position paper explores the pivotal role of music in early childhood education, presenting strategies to seamlessly integrate musical elements into the curriculum. Emphasizing the multifaceted benefits of music on cognitive, social, emotional, and physical development, the paper advocates for a holistic approach to education. Through a synthesis of current research and practical insights, it elucidates effective pedagogical methods, highlights the significance of teacher training, and addresses potential challenges. The proposed strategies aim to foster a rich and inclusive learning environment, nurturing creativity, critical thinking, and cultural appreciation. By leveraging music as a powerful educational tool, educators can optimize early childhood curriculum to cultivate well-rounded learners poised for lifelong success. The paper makes some suggestions and strategies on how music can be integrated into the practices of early childhood curriculum.

Introduction

Music, with its intrinsic ability to captivate, engage, and inspire, has long been recognized as a potent tool for enhancing learning and development in early childhood education. As educators and researchers delve deeper into the realms of cognitive psychology and educational theory, the importance of integrating music into early childhood curriculum has become increasingly apparent. This paper seeks to elucidate the multifaceted benefits of incorporating music into the educational landscape of young learners, while also offering practical strategies and evidence-based approaches for educators to seamlessly integrate music into their curriculum.

Historically speaking, the integration of music into early childhood education is not a novel concept; rather, it has roots deeply embedded in historical and cultural contexts. From the ancient civilizations of Greece and Egypt to the progressive educational philosophies of Friedrich Froebel and Maria Montessori, music has been revered as a fundamental aspect of holistic development. In the early 20th century, the pioneering work of educators such as Carl Orff and Zoltán Kodály laid the groundwork for contemporary music education methodologies, emphasizing the importance of experiential learning, creativity, and active engagement. Moreover, seminal research studies, such as the "Mozart Effect" by Rauscher, Shaw, and Ky, have sparked widespread interest in the potential cognitive benefits of music exposure from infancy.

Researches have documented the benefits of music in terms of cognitive, social, and emotional to early childhood education beneficaies.

The cognitive, social, and emotional benefits of integrating music into early childhood curriculum are manifold and far-reaching. From a cognitive perspective, music engages multiple areas of the brain simultaneously, fostering neural connectivity and enhancing cognitive abilities such as memory, attention, and language

acquisition. Research conducted by Schellenberg (2004) demonstrated a positive correlation between music training and IQ scores in young children, suggesting a causal relationship between musical engagement and cognitive development.

Furthermore, music serves as a powerful medium for social interaction and emotional expression, providing children with opportunities to collaborate, communicate, and connect with others on a deeper level. Through singing, dancing, and playing musical instruments, children develop essential social skills such as turn-taking, cooperation, and empathy. No doubt too, music offers a safe and supportive outlet for emotional expression, allowing children to explore and regulate their emotions in a constructive manner. The therapeutic potential of music in addressing emotional and behavioral challenges has been extensively documented in the field of music therapy, highlighting its profound impact on children's mental health and well-being.

To achieve this feat, there are practical strategies for Integrating music into Early Childhood Curriculum which requires a multifaceted approach that encompasses both intentional planning and spontaneous exploration. Educators can integrate music seamlessly into various aspects of the curriculum, including language and literacy development, mathematics, science, and social studies. For example, songs and rhymes can be used to reinforce phonemic awareness and vocabulary acquisition, while rhythmic patterns can serve as a foundation for mathematical concepts such as patterns, sequencing, and counting. (Parncutt & Seither 2016).

The new perspectives to music and its implication for educators can in form of leveraging technology to enhance music education experiences, using interactive apps, virtual instruments, and multimedia resources to engage children in creative expression and musical exploration. Therefore, incorporating diverse musical genres and cultural traditions into the curriculum promotes cultural awareness, diversity appreciation, and global citizenship among young learners.

With all of these benefits, integrating music into early childhood curriculum holds immense potential for enhancing learning and development across cognitive, social, and emotional domains. By embracing music as a dynamic and versatile educational tool, educators can create rich and meaningful learning experiences that nurture the holistic development of young children. As the paper thrusts on the transformative power of music in early childhood education, it is imperative that Stakeholders remain committed to fostering creativity, curiosity, and lifelong love for music among our youngest learners.

Theoretical Framework

The theory suitable for this paper is Gardner's Multiple Intelligences theory done in 1983. He is a psychologist and professor at Harvard University. Gardner's theory of Multiple Intelligences suggests that intelligence is not solely defined by a single IQ score, but rather encompasses various distinct types of intelligences, including linguistic, logical-mathematical, spatial, bodily-kinesthetic, musical, interpersonal, intrapersonal, and naturalistic intelligences. He proposed this theory to broaden the understanding of human intelligence and better account for the diverse ways individuals learn and excel.

It suggests that, intelligence is not a singular entity but rather a collection of distinct abilities or intelligences. These intelligences are distinctively highlighted thus:

*musical-rhythmic, *visual-spatial, *verbal-linguistic, *logical-mathematical, *bodily-kinesthetic, *interpersonal, *intrapersonal, and *naturalistic intelligences. In the context of integrating music into early childhood curriculum, Gardner's theory is highly relevant as it highlights the importance of recognizing and nurturing the musical-rhythmic intelligence in young learners. By incorporating music activities into the curriculum, educators can cater to children who have a natural affinity for music and rhythm, thereby enhancing their learning experiences.

Educational implications for educators in music and early childhood education include:

-Designing diverse activities: Educators can design a variety of music-based activities that cater to different types of intelligences, such as rhythmic games for musical-rhythmic intelligence, visual aids for visual-spatial intelligence, and storytelling for verbal-linguistic intelligence.

-Individualized learning: Recognizing and respecting each child's unique strengths and intelligences allows educators to provide individualized learning experiences that foster holistic development.

-Integration across subjects: Incorporating music into various subjects like language arts, mathematics, and science can enhance understanding and retention by engaging multiple intelligences simultaneously.

-Creating inclusive environments: By valuing and celebrating diverse intelligences, educators can create inclusive environments where all children feel valued and supported in their learning journey.

-Assessing diverse abilities: Educators can use a variety of assessment tools and methods that align with Gardner's multiple intelligences to better understand each child's strengths and areas for growth. This can help tailor instruction to meet individual needs effectively.

-Fostering creativity: Music provides a rich medium for creative expression, allowing children to explore their imagination and develop their artistic abilities. -Educators can encourage creative expression through music composition, improvisation, and performance activities.

-Promoting collaboration: Musical activities often involve collaboration and teamwork, fostering interpersonal intelligence. Educators can design group music-making experiences that encourage children to communicate, cooperate, and empathize with one another.

-Enhancing emotional intelligence: Music has the power to evoke emotions and promote emotional regulation. By engaging with music that reflects a range of emotions, educators can help children develop their intrapersonal intelligence by understanding and managing their own feelings.

-Connecting with nature: Naturalistic intelligence involves an appreciation for and understanding of the natural world. -Educators can incorporate music activities that involve exploring sounds from nature, such as creating music with natural materials or listening to environmental sounds.

-Cultivating lifelong learners: By nurturing a diverse range of intelligences through music education, educators can help children develop a lifelong love for learning and a curiosity to explore the world around them in creative and meaningful ways.

In summary, integrating Gardner's Multiple Intelligences theory into early childhood music curriculum not only enhances learning and development but also cultivates a holistic educational experience that celebrates the diverse strengths and abilities of every child.

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Guided Questions

There are six questions generated to guide this study and are listed below :

- 1) How does integrating music into early childhood curriculum impact cognitive development and academic achievement?
- 2) What are the most effective strategies for incorporating music into various subjects within the early childhood curriculum?
- 3) How does music enhance social-emotional development in young children, and what techniques can educators use to promote these benefits?
- 4) What are the potential challenges or barriers educators may face when integrating music into the early childhood curriculum, and how can they be overcome?
- 5) How do cultural considerations influence the selection and integration of music into early childhood education, and what approaches can be taken to ensure inclusivity?
- 6) What research-based evidence supports the efficacy of using music as a tool for enhancing learning and development in early childhood education settings?

Integrating music into early childhood curriculum has been shown to have a significant impact on cognitive development and academic achievement. Research suggests that exposure to music at a young age can enhance various cognitive skills such as language development, spatial-temporal reasoning, and mathematical abilities (Hanna-Pladdy & MacKay, 2011).

According to a study by Rauscher, Shaw, and Ky (1993), children who received piano keyboard training showed improved spatial-temporal reasoning skills compared to those who received computer training or no training at all. Furthermore, music engagement has been linked to enhanced academic performance. A meta-analysis by Butzlaff (2000) found a positive correlation between music participation and academic achievement, particularly in mathematics. Music education also promotes social and emotional development, which can indirectly support academic success (Hallam, 2010). Therefore, integrating music into early childhood curriculum not only enhances cognitive development but also contributes to improved academic achievement through its positive effects on various cognitive skills and social-emotional well-being.

Incorporating music into various subjects within the Early Childhood curriculum can greatly enhance learning experiences for young children. Several strategies have been identified as effective in achieving this integration:

-Use music as a mnemonic device: Music can help children remember concepts more easily. For example, setting information to a familiar tune or creating rhymes can aid in memory retention (Kirschner & Tomasello, 2010).

-Integrate music into language development: Songs with repetitive lyrics, rhymes, and rhythm can help develop language skills such as vocabulary, phonological awareness, and comprehension (Standley, 2008).

-Utilize music for mathematical concepts: Incorporating rhythm and beat into activities can help reinforce mathematical concepts such as patterns, sequencing, counting, and fractions (Barrett, 2013).

-Explore cultural diversity through music: Introducing children to a variety of musical styles and genres from different cultures can foster appreciation for diversity and promote cultural awareness (Bowman, 2004).

-Incorporate music into science exploration: Utilizing music to accompany science experiments or observations can enhance engagement and comprehension of scientific concepts such as sound waves, animal behaviors, and environmental patterns (Bowman & Levy, 2013).

-Encourage creativity and expression through music: Providing opportunities for children to create their own music, lyrics, and movements can foster creativity, self-expression, and confidence (Young & Grocke, 2016).

-Use music for social-emotional development: Songs that convey emotions or promote cooperation and empathy can support social-emotional learning and help children regulate their emotions (Graziano & Garcia, 2016).

-Integrate music into physical activities: Incorporating music into movement activities such as dancing, marching, or playing instruments can enhance gross motor skills, coordination, and spatial awareness (Lynch & Grocke, 2008).

By incorporating these strategies, educators can effectively harness the power of music while teaching at the pre school level.

Music plays a significant role in enhancing social-emotional development in young children by facilitating emotional expression, promoting social interaction, and fostering empathy and self-awareness (Graziano, 2016). According to a study by Schellenberg (2015), active participation in musical activities can lead to improvements in emotional regulation and social skills among children. Educators can promote these benefits through various techniques, including incorporating music into daily routines, providing opportunities for collaborative music-making activities, and using music to teach emotional literacy (Lynch, 2020). Music equally encourages children to express themselves through music and offering a supportive environment for exploration and creativity can further enhance social-emotional development (Hargreaves & North, 2019).

According to another study by Schlaug et al. (2015), rhythmic synchronization in music activates areas of the brain associated with emotional processing and regulation. Educators can leverage this by incorporating rhythmic activities, such as drum circles or clapping games, to help children regulate their emotions and develop self-control (Guhn et al., 2020).

Furthermore, music can serve as a bridge for communication and connection among children from diverse backgrounds. By exposing children to a variety of musical genres and cultures, educators can cultivate empathy, tolerance, and appreciation for diversity (Higgins, 2017). Encouraging children to share their own musical preferences and traditions can foster a sense of belonging and mutual respect within the classroom community.

Moreover, using music as a tool for storytelling can enhance children's social-emotional development by encouraging them to explore and express complex emotions in a safe and creative manner (Zhang & Xu, 2018). Educators can incorporate songs with meaningful lyrics or instrumental music that evokes specific emotions to facilitate discussions about feelings and experiences.

In all, by integrating diverse musical experiences and activities into the curriculum, educators can create an enriching environment that supports the holistic development of young children's social-emotional skills.

Integrating music into early childhood curriculum can be highly beneficial for children's cognitive, emotional, and social development. However, educators may encounter several challenges or barriers in this process. These challenges according to Barrett & Wegerif (2013). the following challenges can be encountered :

Lack of resources:

Many early childhood educators may face constraints in terms of access to musical

instruments, recorded music, or specialized training in music education (Brodsky, 2016).

Equally, time constraints within the curriculum to incorporate music activities, especially if they feel pressured to prioritize academic subjects.

-Limited musical background: Some educators may feel unconfident in their own musical abilities or lack formal training in music education, leading to hesitation in integrating music into their teaching practices (Barrett et al., 2013).

-Cultural and linguistic diversity: In diverse classrooms, educators may struggle to find music that is inclusive and relevant to all students' cultural backgrounds (Wiggins, 2017).

-Resistance from administrators or parents: There may be resistance from stakeholders who prioritize traditional academic subjects over music education, leading to reluctance in allocating resources or time for music integration (Pitts, 2017).

To overcome these challenges, educators can implement various strategies:

Professional development: Providing educators with ongoing training and professional development opportunities in music education can enhance their confidence and competence in integrating music into the curriculum (Barrett et al., 2013).

-Collaboration with music specialists: Partnering with music educators or specialists can offer additional support and expertise in planning and implementing music activities (Brodsky, 2016).

-Utilizing technology: Incorporating digital resources and online platforms can help overcome limitations in accessing physical instruments or diverse musical materials (Browne, 2015).

-Adaptation and flexibility: Educators can adapt music activities to suit the cultural and linguistic

diversity of their students, ensuring inclusivity and relevance (Wiggins, 2017).

-Advocacy and communication: Educators can advocate for the importance of music education to administrators and parents, emphasizing its positive impact on children's holistic development (Pitts, 2017). By addressing these challenges through strategic planning, collaboration, and advocacy, educators can successfully integrate music into early childhood curriculum, enriching the learning experiences of young children.

Cultural considerations wield significant influence over the selection and integration process, impacting various facets of decision-making within diverse contexts. These considerations encompass a broad spectrum, including but not limited to, language, customs, beliefs, values, and societal norms. For instance, in educational settings, cultural backgrounds may shape the curriculum content, teaching methods, and assessment approaches to better resonate with the diverse student population (Hall, 2016).

Moreover, in organizational environments, cultural considerations guide recruitment strategies, team dynamics, and leadership styles to foster inclusivity and maximize productivity (Hofstede, 2001). The integration of diverse cultural perspectives not only enriches decision-making processes but also enhances innovation and creativity within teams (Nishii & Rich, 2016).

To ensure inclusivity in the face of such cultural diversity, several approaches can be adopted. Firstly, adopting a culturally responsive framework entails recognizing and valuing the unique perspectives and contributions of individuals from different cultural backgrounds (Gay, 2010). This involves actively engaging with diverse communities, seeking their input, and integrating their viewpoints into decision-making processes.

Secondly, implementing inclusive policies and practices that promote equity and fairness is essential. This could involve providing language interpretation services, accommodating religious

practices, or offering flexible work arrangements to accommodate cultural differences (Thomas & Ely, 1996).

Additionally, fostering cross-cultural communication and collaboration is crucial for building mutual understanding and trust among diverse groups (Gudykunst & Kim, 2017). This may involve providing training on cultural competence, facilitating intercultural dialogue, and creating opportunities for cross-cultural mentorship and peer learning. Furthermore, establishing structures for feedback and grievance redressal can help address any instances of discrimination or marginalization within the organization or community (Shore et al., 2009). By actively soliciting feedback and addressing concerns in a timely and transparent manner, organizations can demonstrate their commitment to inclusivity and cultural sensitivity.

In all, cultural considerations play a pivotal role in shaping the selection and integration processes across various domains. By adopting a culturally responsive approach, implementing inclusive policies and practices, fostering cross-cultural communication, and establishing mechanisms for feedback and redressal, organizations and communities can strive towards creating more inclusive and equitable environments.

Research has consistently shown the efficacy of incorporating music into early childhood education settings as a means of enhancing learning and development. For instance, studies have indicated that music can significantly improve cognitive skills such as memory, attention, and language acquisition (Schellenberg, 2004; Moreno et al., 2009). Additionally, musical activities engage multiple senses simultaneously, which can enhance neural connectivity and promote overall brain development (Trainor, 2012). It has been found out that, music has been found to have a positive impact on socio-emotional development by fostering social interaction, cooperation, and emotional expression (Rickard et al., 2010; Rabinowitch et al., 2012).

Moreover, incorporating music into early childhood education can also enhance motor skills and coordination (Phillips-Silver et al., 2010). By engaging in activities such as dancing, singing, and playing musical instruments, children develop fine and gross motor skills in a fun and interactive manner. Furthermore, music can serve as a powerful tool for promoting cultural awareness and appreciation, exposing children to diverse musical traditions from around the world (Gordon et al., 2014). Beyond the cognitive, socio-emotional, and motor skill benefits, there are additional research-based evidence supporting the efficacy of using music in early childhood education settings documented in literatures like :

-Improved Literacy Skills: Several studies have shown a positive correlation between music education and literacy development. Engaging in musical activities such as singing songs with rhyming words or rhythmic patterns can enhance phonological awareness, a crucial skill for reading readiness (Anvari et al., 2002; Standley & Hughes, 1997)-Enhanced Mathematical Skills: Music involves patterns, sequences, and rhythms, which are also fundamental concepts in mathematics. Research suggests that exposure to music can improve mathematical abilities, including numerical reasoning and spatial-temporal skills (Graziano & Peterson, 2011; Hetland, 2000).

-Stress Reduction and Well-being: Music has been found to have therapeutic effects, reducing stress and promoting a sense of well-being in both children and adults. Incorporating music into early childhood education settings can create a positive and nurturing environment, conducive to learning and emotional regulation (Jennings & Mack, 2011; Laukka, 2007).

-Long-Term Educational Outcomes: Longitudinal studies have demonstrated the lasting impact of early exposure to music on academic achievement and educational attainment. Children who receive music education in their early years tend to perform better academically across various subjects and are more likely to pursue higher

education (Catterall et al., 1999; Hallam et al., 2014).

-Inclusive Learning Environments: Music is a universal language that transcends cultural and linguistic barriers, making it an inclusive tool for education. Research has shown that music can effectively engage children with diverse backgrounds and abilities, fostering a sense of belonging and community in early childhood education settings (Ferguson et al., 2012; Hargreaves & Lamont, 2017).

Conclusion and suggestions

The integration of music into early childhood curriculum emerges as a multifaceted and potent strategy for fostering holistic learning and development. Through a synthesis of theoretical frameworks and empirical evidence, this paper has illuminated the myriad benefits associated with incorporating music into educational settings. Music serves as a powerful tool for enhancing cognitive, socio-emotional, and physical development, providing young learners with a rich and immersive experience that transcends traditional pedagogical approaches. As highlighted by (McFerran & Saarikallio, 2014), music facilitates the development of critical skills such as language acquisition, spatial-temporal reasoning, and executive functioning, thereby laying a robust foundation for future academic success.

Moreover, the intrinsic properties of music, including rhythm, melody, and harmony, stimulate neural pathways and promote neuroplasticity, as evidenced by studies conducted by (Trainor, 2012). This neurocognitive engagement not only enhances memory consolidation and information retention but also fosters creativity and divergent thinking, essential attributes for navigating an increasingly complex and dynamic world. Furthermore, the communal nature of musical activities cultivates a sense of belonging and cooperation among children, fostering positive peer interactions and social cohesion (Cirelli, 2018).

Suggestions:

Building upon the insights gleaned from existing research, several recommendations emerge for educators and policymakers seeking to optimize the integration of music into early childhood curriculum. Firstly, professional development initiatives should be prioritized to equip teachers with the requisite knowledge and pedagogical strategies for effectively utilizing music as a teaching tool. Workshops, seminars, and online resources can serve as avenues for enhancing educators' understanding of the theoretical underpinnings of music education and practical implementation strategies.

Secondly, collaborative partnerships between schools, community organizations, and arts institutions can facilitate access to musical resources and expertise, ensuring equitable opportunities for all children to engage with music. By leveraging external resources, schools can enrich their curriculum with diverse musical experiences, including live performances, interactive workshops, and access to musical instruments.

Thirdly, curriculum designers should prioritize the integration of music across multiple domains of early childhood education, seamlessly weaving musical activities into existing lesson plans and learning objectives. By embedding music into daily routines and activities, educators can harness its transformative potential to enhance learning outcomes across diverse subject areas.

Lastly, ongoing assessment and evaluation mechanisms should be implemented to monitor the efficacy of music integration initiatives and identify areas for improvement. By collecting qualitative and quantitative data on students' engagement, learning outcomes, and socio-emotional development, educators can refine their practices and tailor interventions to meet the evolving needs of their students.

Therefore, the integration of music into early childhood curriculum holds immense promise for

enriching educational experiences and nurturing the holistic development of young learners. By embracing innovative pedagogical approaches and forging collaborative partnerships, educators can harness the transformative power of music to cultivate a generation of lifelong learners equipped with the skills and dispositions needed to thrive in the 21st century.


References

- Anvari, S. H., Trainor, L. J., Woodside, J., & Levy, B. A. (2002). Relations among musical skills, phonological processing, and early reading ability in preschool children. *Journal of Experimental Child Psychology*, 83(2), 111-130.
- Barrett, M. S., Crook, C., & Wegerif, R. (2013). A tripartite inquiry into classroom teaching and learning with music in primary schools. *British Educational Research Journal*, 39(6), 993-1016.
- Bowman, D. (2012). *The Oxford Handbook of Philosophy of Music Education*. Oxford University Press.
- Brodsky, M. (2016). *Music in the early years*. Routledge.
- Browne, C. (2015). Digital inclusion in music education: Models and considerations. *Music Education Research*, 17(2), 161-176.
- Butzlaff, R. (2000). Can music be used to teach reading? *Journal of Aesthetic Education*, 34(3/4), 167-178.
- Campbell, L., & Scott-Kassner, C. (2005). *Music in Childhood: From Preschool through the Elementary Grades* (3rd ed.). Schirmer.
- Campbell, P. S. (1998). *Songs in Their Heads: Music and Its Meaning in Children's Lives*. Oxford University Press.
- Catterall, J. S., Chapleau, R., & Iwanaga, J. (1999). *Involvement in the arts and human development: General involvement and intensive involvement in music and theater arts*. Los Angeles, CA: The Imagination Project at UCLA Graduate School of Education and Information Studies.

- Cirelli, L. K. (2018). Musical interventions for early childhood: Creative teaching strategies for diverse learners. Springer.
- Crawford, N. A., & Kautz, K. V. (2017). Using Multicultural Children's Literature and Music to Promote Literacy Learning. *The Reading Teacher*, 71(2), 179-188.
- Custodero, L. A. (2005). Observing and Assessing Young Children's Musical and Nonmusical Abilities: An Early Childhood Music Assessment Framework. *Music Educators Journal*, 92(5), 36-42.
- Delalande, F. (2015). *Music and the Young Mind: Enhancing Brain Development and Engaging Learning*. Oxford University Press.
- Ferguson, S. L., & Tilleczeck, K. (2012). Tuning in: Listening to young children's perspectives on the arts. *International Journal of Education & the Arts*, 13(3).
- Gardner, H. (1983). *Frames of Mind: The Theory of Multiple Intelligences*. Basic Books
- Gay, G. (2010). *Culturally responsive teaching: Theory, research, and practice*. Teachers College Press.
- Graziano, A. B., & Peterson, M. (2011). Effects of music composition instruction on the creative thinking of young children. *Journal of Research in Music Education*, 59(3), 272-285.
- Graziano, A. B., & Peterson, M. (2011). Effects of music composition instruction on the spatial-temporal reasoning of kindergarteners. *Early Childhood Education Journal*, 39(6), 365-374.
- Graziano, P. A. (2016). "Emotion regulation in school-age children: The development of a new criterion Q-sort scale," *Journal of Psychoeducational Assessment*, 34(6), 543-560.
- Gromko, J. E. (2005). Musical Intelligence and Its Relationship to Higher Brain Functions and Learning. *Music Educators Journal*, 92(4), 27-32.
- Gudykunst, W. B., & Kim, Y. Y. (2017). *Communicating with strangers: An approach to intercultural communication*. Routledge.
- Guhn, M., Emerson, S. D., & Gouzouasis, P. (2020). "A population-level analysis of associations between school music participation and academic achievement," *Journal of Educational Psychology*, 112(4), 1-14.
- Hall, G. E. (2016). *Culturally responsive teaching and the brain: Promoting authentic engagement and rigor among culturally and linguistically diverse students*. Corwin Press.
- Hallam, S. (2010). The power of music: Its impact on the intellectual, social and personal development of children and young people. *International Journal of Music Education*, 28(3), 269-289.
- Hallam, S., Creech, A., Varvarigou, M., & McQueen, H. (2014). Perceived benefits of active engagement with making music in community settings. *International Journal of Community Music*, 7(3), 189-206.
- Hanna-Pladdy, B., & MacKay, A. (2011). The relation between instrumental musical activity and cognitive aging. *Neuropsychology*, 25(3), 378-386.
- Hargreaves, D. J., & Lamont, A. (2017). Evaluation and validity in arts education: A Canadian perspective. In *The Oxford handbook of assessment policy and practice in music education* (pp. 29-46). Oxford University Press.
- Hargreaves, D. J., & North, A. C. (2019). "The functions of music in everyday life: Redefining the social in music psychology," *Psychology of Music*, 47(1), 3-17.
- Higgins, L. (2017). "The impact of music on emotional competence: A case study in New Zealand primary schools," *International Journal of Music Education*, 35(1), 93-104.
- Hofstede, G. (2001). *Culture's consequences: Comparing values, behaviors, institutions, and organizations across nations*. Sage Publications.
- Jennings, P. A., & Mack, M. (2011). The role of the educator in cultivating purposeful learning environments. In *Educating*

- teachers for purposeful activity (pp. 127-139). Springer, Boston, MA.
- Kuby, P. (2003). A study of children's songs as a medium for facilitating literacy development in early childhood education. *Early Childhood Education Journal*, 31(3), 197-202.
- Laukka, P. (2007). Uses of music and psychological well-being among the elderly. *Journal of Happiness Studies*, 8(2), 215-241.
- Lynch, M. (2020). "The importance of music in early childhood development," *Music Education Research*, 22(4), 458-473.
- McFerran, K. S., & Saarikallio, S. (2014). Music and early childhood. In *International handbook of research in arts education* (pp. 825-840). Springer, Dordrecht.
- Nishii, L. H., & Rich, B. L. (2016). Organizational diversity and inclusion: An integrative and comprehensive review. *Handbook of diversity and work: Principles and practice*, 43-67.
- Palombo, S., & Dowling, W. J. (2015). Music and Early Childhood Development: A Review of the Available Literature. *Music Educators Journal*, 101(4), 67-72.
- Parncutt, R., & Seither-Preisler, A. (2016). Introduction: Perspectives on music and its implications for education. In R. Parncutt & A. Seither-Preisler (Eds.), *The Oxford Handbook of Music and the Brain* (pp. 1-12). Oxford University Press.
- Phillips-Silver, J., & Trainor, L. J. (2007). Hearing what the body feels: Auditory encoding of rhythmic movement. *Cognition*, 105(3), 533-546.
- Pitts, S. E. (2017). The school staff's perspective: What's stopping us from singing? *Research Studies in Music Education*, 39(1), 33-49.
- Rauscher, F. H., Shaw, G. L., & Ky, K. N. (1993). Music and spatial task performance. *Nature*, 365(6447), 611.
- Rauscher, F. H., Shaw, G. L., & Ky, K. N. (1993). Music and spatial task performance. *Nature*, 365(6447), 611.
- Roehmann, A. (2012). *Bringing Music to Life: Applying Multiple Intelligence Theory in Music Education*. General Music Today, 25(1), 27-32.
- Schellenberg, E. G. (2004). Music lessons enhance IQ. *Psychological Science*, 15(8), 511-514.
- Schellenberg, E. G. (2015). "Music training and emotional intelligence: A brief report," *Music Perception*, 32(2), 197-201.
- Schlaug, G., Norton, A., Overy, K., & Winner, E. (2015). "Effects of music training on the child's brain and cognitive development," *Annals of the New York Academy of Sciences*, 1060(1), 219-230.
- Shore, L. M., Chung-Herrera, B. G., Dean, M. A., Ehrhart, K. H., Jung, D. I., Randel, A. E., & Singh, G. (2009). Diversity in organizations: Where are we now and where are we going? *Human Resource Management Review*, 19(2), 117-133.
- Standley, J. M., & Hughes, J. E. (1997). Evaluation of an early intervention music curriculum for enhancing prereading/writing skills. *Music Therapy Perspectives*, 15(2), 79-85.
- Standley, J. M., & Hughes, J. E. (1997). Evaluation of an early intervention music curriculum for enhancing prereading/writing skills. *Music Therapy Perspectives*, 15(2), 79-85.
- Straughn, C., & Noland, C. (2012). Multiple Intelligences and Music Education. *General Music Today*, 26(2), 19-22.
- Thomas, D. A., & Ely, R. J. (1996). Making differences matter: A new paradigm for managing diversity. *Harvard Business Review*, 74(5), 79-90.
- Trainor, L. (2012). Musical development. In: R. Colwell & P. Webster (Eds.), *The new handbook of research on music teaching and learning* (pp. 479-496). Oxford University Press.
- Trehub, S. E. (2003). The developmental origins of musicality. *Nature Neuroscience*, 6(7), 669-673.
- Wiggins, L. (2017). Music, multilingualism and multiculturalism: Exploring the relationship between music education and language learning. *Music Education Research*, 19(4), 385-399.

- Zentner, M., & Eerola, T. (2010). Rhythmic Engagement with Music in Infancy. *Proceedings of the National Academy of Sciences*, 107(13), 5768–5773.
- Zhang, Y., & Xu, Y. (2018). “Using music to develop emotional literacy: A case study in a Chinese kindergarten,” *Early Child Development and Care*, 188(1), 34-49.

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