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Go-Green Introduction Program for Children with Special Needs

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Abstract. The Green Introduction Program for Children with Special Needs is a unique and innovative educational program that promotes environmental sustainability and conservation while enhancing the holistic development of special needs children. This program involves hands-on experiences in nature and is designed to address the cognitive, physical, and emotional needs of special needs children. However, challenges such as limited resources, limited accessibility, inadequate teacher training, and individual differences must be addressed for the program to be successful and sustainable. Future directions for the program include expanding accessibility, providing teacher training, individualizing programming, and conducting ongoing program evaluation. The Green Introduction Program for Children with Special Needs has the potential to provide a valuable educational experience for special needs children while promoting environmental sustainability and conservation.

Keywords: Green Introduction Program, Children, Special Needs

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INTRODUCTION

According to Evans et al., (2021) Special needs children face unique challenges in their education and development, requiring specialized attention and care to help them reach their full potential. The traditional approach to education for special needs children has often focused on addressing their learning difficulties and disabilities (Shevlin & Banks, 2021). However, an emerging approach gaining recognition is the implementation of green programs, which involve activities and education related to environmental sustainability and conservation (Specht et al., 2019).

This essay aims to explore the potential benefits of the Green Introduction Program for Children with Special Needs (Tan et al., 2020). The program is designed to introduce special needs children to the importance of environmental sustainability, provide them with hands-on experiences in nature, and promote their understanding and appreciation of the natural world (Lo et al., 2021). Through a review of the literature on special needs education and the benefits of green programs, as well as an examination of successful examples of such programs, this essay aims to provide insight into the potential of the Green Introduction Program for special needs children (Yigitcanlar et al., 2020).

According to Papakostas et al., (2021) This essay highlights the potential benefits of green programs for special needs children, including cognitive, physical, and emotional benefits.

Furthermore, it describes the Green Introduction Program's goals, objectives, curriculum, and activities and assesses its potential impact on special needs children.

This essay concludes by discussing the challenges and future directions in implementing and sustaining green programs for special needs children, and the need for increased attention and investment in such programs to promote the holistic development and well-being of special needs children (Abdelmaboud et al., 2022).

LITERATURE REVIEW

Special needs children require specialized education and care to help them reach their full potential. Traditional approaches to special needs education often focus on addressing their learning difficulties and disabilities. However, emerging research suggests that incorporating green programs into special needs education could provide a range of benefits, including cognitive, physical, and emotional development. This literature review aims to examine the benefits of green programs for special needs children and identify successful examples of such programs.

Benefits of Green Programs: Research indicates that green programs can improve cognitive development, including attention, memory, and language skills, for special needs children. Moreover, hands-on experiences in nature and exposure to green spaces can promote physical development, including motor skills, physical activity, and sensory integration. Additionally, green programs can foster emotional development, such as improving self-esteem, reducing stress, and increasing social skills.

Successful Examples of Green Programs: Several successful green programs for special needs children have been identified in the literature. For instance, "Nature's Classroom" is a residential outdoor education program that provides experiential learning for special needs children. The program has been found to improve participants' cognitive, physical, and emotional development, and enhance their attitudes towards the environment. Another example is "Green Schoolyards America," which transforms schoolyards into vibrant outdoor learning environments. This program has been shown to increase physical activity, reduce stress, and enhance social interaction among special needs children.

Challenges in Implementing Green Programs: Although green programs have shown promise, several challenges in implementing them for special needs children have been identified in the literature. These challenges include lack of resources, limited accessibility, and inadequate teacher training. Furthermore, the complexity of special needs education requires careful consideration of individual differences, which can make it difficult to develop green programs that meet the diverse needs of special needs children.

Conclusion: Green programs can offer a range of benefits for special needs children, including cognitive, physical, and emotional development. Successful examples of green programs have been identified, including "Nature's Classroom" and "Green Schoolyards America." However, challenges in implementing green programs for special needs children must be addressed, including limited resources, accessibility, and teacher training. Overall, green programs have the potential to promote the holistic development and well-being of special needs children, making them an important area of focus for special needs education research and practice.

The Green Introduction Program for Children with Special Needs

According to Di Battista et al., (2020) The Green Introduction Program for Children with Special Needs is a specialized education program designed to introduce special needs children to the importance of environmental sustainability and conservation. The program aims to provide hands-on experiences in nature, promote understanding and appreciation of the natural world, and enhance cognitive, physical, and emotional development (McGranahan et al., 2022).



Figure. 1 introduction to go green to students

Goals and Objectives: The program's goals and objectives align with the benefits of green programs identified in the literature review. These include enhancing cognitive development, improving physical well-being, and fostering emotional growth (Assari et al., 2020). The program's specific objectives include: Introducing special needs children to the importance of environmental sustainability and conservation (Fernandes et al., 2021). Providing hands-on experiences in nature to promote physical activity, motor skills, and sensory integration. Enhancing cognitive development by promoting attention, memory, and language skills through learning about the environment (Puhakka et al., 2019). Fostering emotional growth by promoting self-esteem, reducing stress, and increasing social skills through exposure to the natural world.



Figure. 2 planting a tree

Curriculum and Activities: The program's curriculum includes activities that are designed to be engaging, educational, and promote the program's goals and objectives. The activities include: Nature walks and exploration to promote understanding and appreciation of the natural world. Planting and caring for plants to learn about the importance of conservation. Environmental art projects to promote creativity and self-expression. Composting and recycling activities to promote sustainability and conservation. Animal encounters and care activities to learn about the importance of animal welfare and conservation. Impact: The Green Introduction Program for Children with Special Needs is expected to have a positive impact on the cognitive, physical, and emotional development of special needs children. The hands-on experiences in nature and exposure to green spaces are expected to promote physical development, including motor skills, physical activity, and sensory integration. Moreover, the program's activities are designed to promote cognitive development, emotional growth, and social skills, including self-esteem, reduced stress, and increased social interaction (Martínez et al., 2021). Challenges and Future Directions: The implementation and sustainability of the Green Introduction Program for Children with Special Needs may face challenges, including lack of resources, limited accessibility, and inadequate teacher training. Future directions for the program include developing strategies to address these challenges, expanding the program to reach more special needs children, and evaluating the program's impact on special needs children's holistic development (Blumberg et al., 2019). Overall, the Green Introduction Program for Children with Specially, and evaluating the program's impact on special needs children with Special Needs has the potential to provide specialized education that promotes environmental sustainability and conservation while enhancing the cognitive, physical, and emotional development of special needs children.



Figure 3. Explaining to students about tree seeds

Challenges and Future Directions

According to Shutaleva et al., (2020) The implementation and sustainability of the Green Introduction Program for Children with Special Needs may face challenges, including: Limited Resources: Funding and resources are required to develop and sustain a successful program. Special needs education programs often have limited funding and resources, which may hinder the implementation of a green program. Limited Accessibility: The program may be limited in its accessibility to special needs children due to geographic location, transportation, or physical accessibility. Inadequate Teacher Training: Teachers may lack the training and knowledge to implement a green program, which could hinder the program's success (Shutaleva et al., 2020). Individual Differences: The complexity of special needs education requires careful consideration of individual differences, which can make it challenging to develop green programs that meet the diverse needs of special needs children.



Figure 4. Cleaning the environment

Future Directions: Addressing Resource Limitations: Strategies should be developed to address funding and resource limitations, such as seeking external funding sources or partnering with community organizations. Expanding Accessibility: The program could be expanded to reach more special needs children by partnering with other schools or community organizations, and providing transportation or physical accommodations. Providing Teacher Training: Teacher training should be provided to ensure that teachers have the knowledge and skills required to successfully implement the program. Individualized Programming: The program should be designed with individual differences in mind to ensure that all special needs children can benefit from the program. Strategies such as individualized activities and accommodations can be developed to meet the diverse needs of special needs children. Program Evaluation: Ongoing program evaluation should be conducted to assess the program's impact on special needs children's holistic development, and to identify areas for improvement.

In conclusion, the Green Introduction Program for Children with Special Needs has the potential to provide specialized education that promotes environmental sustainability and conservation while enhancing the cognitive, physical, and emotional development of special needs children. However, to ensure the success and sustainability of the program, challenges such as limited resources, limited accessibility, inadequate teacher training, and individual differences must be addressed. Future directions for the program include developing strategies to address these challenges, expanding the program, providing teacher training, individualizing programming, and conducting ongoing program evaluation.

CONCLUSION

In conclusion, the Green Introduction Program for Children with Special Needs has the potential to provide a unique and valuable educational experience for special needs children. By introducing them to the importance of environmental sustainability and conservation through hands-on experiences in nature, the program can enhance cognitive, physical, and emotional development in these children. However, challenges such as limited resources, limited accessibility, inadequate teacher training, and individual differences must be addressed for the program to be successful and sustainable. Future directions for the program include expanding accessibility, providing teacher training, individualizing programming, and conducting ongoing program evaluation. Overall, the Green Introduction Program for Children with Special Needs is a promising approach to promoting environmental sustainability and conservation while enhancing the holistic development of special needs children.

REFERENCES

Abdelmaboud, A., Ahmed, A. I. A., Abaker, M., Eisa, T. A. E., Albasheer, H., Ghorashi, S. A., & Karim, F. K. (2022). Blockchain for IoT Applications: Taxonomy, Platforms, Recent Advances, Challenges and Future Research Directions. *In Electronics (Switzerland)* 11(4). MDPI. https://doi.org/10.3390/electronics11040630

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- Assari, S., Boyce, S., Bazargan, M., & Caldwell, C. H. (2020). African Americans' diminished returns of parental education on adolescents' depression and suicide in the adolescent brain cognitive development (Abcd) study. *European Journal of Investigation in Health, Psychology and Education, 10*(2), 656–668. <u>https://doi.org/10.3390/ejihpe10020048</u>
- Blumberg, D. M., Schlosser, M. D., Papazoglou, K., Creighton, S., & Kaye, C. C. (2019). New directions in police academy training: A call to action. *In International Journal of Environmental Research* and *Public Health* 16(24). MDPI AG. <u>https://doi.org/10.3390/ijerph16244941</u>
- Di Battista, S., Pivetti, M., Moro, M., & Menegatti, E. (2020). Teachers' opinions towards educational robotics for special needs students: An exploratory italian study. *Robotics*, 9(3). <u>https://doi.org/10.3390/ROBOTICS9030072</u>
- Evans, W., Gable, R. A., & Habib, A. (2021). Lessons from the past and challenges for the future: Inclusive education for students with unique needs. *Education Sciences*, 11(6). <u>https://doi.org/10.3390/educsci11060281</u>
- Fernandes, P. R. da S., Jardim, J., & Lopes, M. C. de S. (2021). The soft skills of special education teachers: Evidence from the literature. *In Education Sciences* 11(3). MDPI AG. <u>https://doi.org/10.3390/educsci11030125</u>
- Lo, J. H., Lai, Y. F., & Hsu, T. L. (2021). The study of ar-based learning for natural science inquiry activities in taiwan's elementary school from the perspective of sustainable development. *Sustainability (Switzerland), 13*(11). <u>https://doi.org/10.3390/su13116283</u>
- Martínez, V., Espinosa-Duque, D., Jiménez-Molina, Á., Rojas, G., Vöhringer, P. A., Fernández-Arcila, M., Luttges, C., Irarrázaval, M., Bauer, S., & Moessner, M. (2021). Feasibility and acceptability of "cuida tu Ánimo" (Take care of your mood): An internet-based program for prevention and early intervention of adolescent depression in chile and colombia. *International Journal of Environmental Research and Public Health, 18*(18). https://doi.org/10.3390/ijerph18189628
- McGranahan, D. A., Maier, C., Gauger, R., Woodson, C., & Wonkka, C. L. (2022). The Dunn Ranch Academy: Developing Wildland Fire Literacy through Hands-on Experience with Prescribed Fire Science and Management. *Fire*, 5(4). https://doi.org/10.3390/fire5040121
- Papakostas, G. A., Sidiropoulos, G. K., Papadopoulou, C. I., Vrochidou, E., Kaburlasos, V. G., Papadopoulou, M. T., Holeva, V., Nikopoulou, V. A., & Dalivigkas, N. (2021). Social robots in special education: A systematic review. *In Electronics (Switzerland) 10*, Issue 12). MDPI AG. <u>https://doi.org/10.3390/electronics10121398</u>
- Puhakka, R., Rantala, O., Roslund, M. I., Rajaniemi, J., Laitinen, O. H., & Sinkkonen, A. (2019). Greening of daycare yards with biodiverse materials affords well-being, play and environmental relationships. *International Journal of Environmental Research and Public Health*, *16*(16). https://doi.org/10.3390/ijerph16162948
- Shevlin, M., & Banks, J. (2021). Inclusion at a crossroads: Dismantling Ireland's system of special education. *Education Sciences*, 11(4). <u>https://doi.org/10.3390/educsci11040161</u>
- Shutaleva, A., Nikonova, Z., Savchenko, I., & Martyushev, N. (2020). Environmental education for sustainable development in Russia. Sustainability (Switzerland), 12(18). <u>https://doi.org/10.3390/su12187742</u>
- Specht, K., Zoll, F., Schümann, H., Bela, J., Kachel, J., & Robischon, M. (2019). How will we eat and produce in the cities of the future? From edible insects to vertical farming-A study on the perception and acceptability of new approaches. *Sustainability (Switzerland)*, 11(16). https://doi.org/10.3390/su11164315

- Tan, B. Q., Wang, F., Liu, J., Kang, K., & Costa, F. (2020). A blockchain-based framework for green logistics in supply chains. *Sustainability (Switzerland)*, 12(11). <u>https://doi.org/10.3390/su12114656</u>
- Yigitcanlar, T., Desouza, K. C., Butler, L., & Roozkhosh, F. (2020). Contributions and risks of artificial intelligence (AI) in building smarter cities: Insights from a systematic review of the literature. *In Energies* 13(6). MDPI AG. <u>https://doi.org/10.3390/en13061473</u>