

Integration of Climate Change in the Education Curriculum in Republic of Indonesia

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ARTICLE INFORMATION	ABSTRACT
Article History: Received, 25-08-2024 Accepted, 09-10-2024 Published, 07-12-2024	<i>Climate change has become an issue and problem in various parts of the world. The purpose of this study is to analyze the causes and impacts of climate change for children and humans in general. In addition, how the curriculum, students, teachers play an active role - integration in learning and have a great future, as agents of change. The results of this study indicate that it is necessary to carry out a comprehensive integration of the climate change curriculum between the government, students, teachers and all communities so that climate change disasters can be mitigated early on, since childhood so that they can live between generations sustainably.</i>
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INTRODUCTION

Indonesia, as a tropical archipelago, is particularly vulnerable to the impacts of climate change.(Shivanna, 2022). These changes have significant implications for the economy, food security, and the well-being of its people. The government has recognized the urgency of addressing climate change and has taken steps to mitigate its effects through policies and initiatives. However, there is still much work to be done to adapt to the changing climate and build resilience in the face of these challenges.

The government is working to implement sustainable practices in key sectors such as agriculture, fisheries, and tourism to reduce carbon emissions and promote environmental conservation (Chopra et al., 2023). Additionally, they are investing in infrastructure projects to protect coastal areas from erosion and flooding. By prioritizing climate action and collaboration with international partners, the country is striving to build a more sustainable future for its citizens and preserve its unique natural heritage. The road ahead may be challenging, but with concerted efforts and a collective commitment to climate resilience, the country can navigate through these turbulent times and emerge stronger than ever before. One key aspect of the country's climate resilience strategy is the promotion of renewable energy sources such as solar and wind power. By shifting away from fossil fuels and towards cleaner alternatives, the country aims to reduce its carbon footprint and decrease its reliance on imported energy. In addition, efforts are being made to improve energy efficiency in buildings and transportation systems, further contributing to the country's overall sustainability goals. Through these initiatives, the country is not only mitigating the impacts of climate change, but also creating new economic opportunities and jobs in the green energy sector.

Furthermore, investing in renewable energy sources can help diversify the country's energy portfolio, making it more resilient to fluctuations in global oil prices. This shift towards sustainable energy also aligns with international commitments to reduce greenhouse gas emissions and combat climate change. By prioritizing renewable energy, the country is setting an example for others to follow and demonstrating its commitment to a cleaner, greener future for all. Therefore, it is crucial for educational institutions to integrate climate change education into their curriculum (Molthan-Hill et al., 2019). By educating students about the impacts of climate change and the importance of sustainable energy practices, we can empower future generations to be proactive in mitigating environmental threats. This shift towards a more environmentally conscious mindset will not only benefit the planet, but also create a workforce that is equipped to drive innovation and progress in the green energy sector. It is essential for education to play a key role in shaping a sustainable future for our country and the world.

One key aspect of this approach is the need for strong government policies and incentives to drive the transition to clean energy. By providing financial support and regulatory frameworks that encourage the adoption of renewable energy sources, the government can play a crucial role in accelerating the shift towards a more sustainable energy system. Furthermore, partnerships between the public and private sectors can help to spur innovation and investment in clean energy technologies, creating new opportunities for job creation and economic growth (Raihan et al., 2022). Overall, a coordinated and strategic approach to sustainable energy development is essential for addressing the challenges of climate change and building a more resilient and secure energy future.

The aim of this research paper is to explore the current state of climate change education in schools and identify opportunities for improvement. By examining existing curriculum standards, teacher training programs, and school initiatives, we hope to provide recommendations for how educators and policymakers can better integrate climate change education into the classroom. Through this research, we aim to empower educators to effectively teach students about the causes and consequences of climate change, as well as the solutions that are needed to address it. Ultimately, our goal is to inspire a new generation of leaders who are committed to creating a more sustainable and resilient future for all. In order to achieve this goal, we will be conducting interviews with educators, policymakers, and experts in the field of climate change education. We will also be reviewing case studies of successful climate change education programs from around the world to identify best practices that can be replicated in other settings. Additionally, we will be surveying students to gather their perspectives on how climate change is currently being taught in schools and what improvements they would like to see. By taking a comprehensive approach to our research, we hope to develop a set of actionable recommendations that can be implemented at the local, state, and national levels to ensure that all students receive a thorough and engaging education on this critical issue.

METHOD

Methodologies for our research will include literature reviews, interviews with educators and policymakers, analysis of curriculum materials, and surveys of both students and teachers. Through this multi-faceted approach, we aim to gain a deep understanding of the current state of climate change education and to identify areas for improvement. Our ultimate goal is to equip educators with the tools and resources they need to effectively teach about climate change and inspire the next generation of environmental stewards (Jenkins, 2010). This research will also explore the barriers and challenges that educators face when teaching about

climate change, such as lack of resources, conflicting curriculum standards, and misinformation. By addressing these obstacles, we hope to provide practical solutions and strategies for educators to overcome them. Additionally, we will examine the role of policymakers in shaping climate change education policies and advocate for greater support and funding in this area. Ultimately, our research aims to contribute to a more informed and empowered society that is equipped to address the urgent challenges of climate change (Monroe et al., 2019).

RESULTS AND DISCUSSION

Importance of Integrating Climate Change in Education Curriculum

Integrating climate change into the education curriculum is crucial in raising awareness, fostering environmental stewardship, and promoting sustainable practices (Altassan, 2023). One source that discusses the importance of integrating climate change in education curriculum is the United Nations Educational, Scientific and Cultural Organization (UNESCO). They emphasize the need for a coordinated and strategic approach to sustainable energy development in order to address climate change challenges. By incorporating these topics into the education curriculum, future generations can be better prepared to contribute to a more resilient and secure energy future. By incorporating topics such as (Altassan, 2023), conservation, and climate science into school curricula, students can develop a deeper understanding of the importance of protecting the environment and taking action to mitigate the impacts of climate change. This not only empowers young people to become informed and engaged citizens, but also helps to build a more sustainable and resilient society for the future (Ali et al., 2023; Mardani et al., 2023).

Furthermore, by educating students about climate change at a young age, we can instill in them a sense of responsibility and urgency to address this pressing issue (Tannock, 2021). Providing them with the knowledge and skills to make informed decisions about their own impact on the environment can lead to meaningful changes in behavior and attitudes towards sustainability. In addition, integrating climate change into the education curriculum can help to bridge the gap between scientific research and public understanding, fostering a more informed and educated society as a whole. It is essential that we equip the next generation with the tools and resources they need to become active participants in the fight against climate change and work towards a more sustainable future.

By empowering students to understand the complexities of climate change and the role they can play in mitigating its effects, we can create a generation of environmentally conscious individuals who are equipped to make positive changes in their communities and beyond. Education is key in shaping the attitudes and behaviors of future leaders, and by prioritizing climate change education, we can ensure that our youth are prepared to tackle the challenges of a rapidly changing world. By instilling a sense of responsibility and stewardship for the planet in our students, we can inspire them to take action and advocate for sustainable practices in all aspects of their lives (Aji & Rosyad, 2020a; Mardani, 2019, 2024).

Climate Change Education in Indonesia

a) Current status of climate change education in Indonesia

While some schools have integrated climate change education into their curriculum, others lack the necessary materials and training for teachers to effectively teach this topic (Martha et al., 2019). Our research will aim to identify the gaps in current education practices and highlight successful strategies that can be scaled up across the country. Through

interviews with educators and policymakers, we hope to provide valuable insights that can inform future policy decisions and improve the quality of climate change education in Indonesia.

By examining the successes and challenges faced by schools in different regions, we can develop a comprehensive understanding of the state of climate change education in Indonesia. Additionally, we will explore the role of community engagement and partnerships in promoting climate literacy among students. By collaborating with local organizations and stakeholders, we can create a more holistic approach to addressing this critical issue. Ultimately, our goal is to empower educators with the tools and resources they need to effectively teach about climate change and inspire the next generation of environmental leaders (Rickinson, 2001).

Through this research, we hope to identify best practices and innovative strategies that can be implemented in schools across Indonesia to enhance climate change education. By highlighting successful initiatives and lessons learned from past experiences, we can help schools overcome barriers and adapt to the ever-changing landscape of environmental education. Furthermore, by fostering a culture of sustainability and resilience within educational institutions, we can cultivate a generation of environmentally conscious and proactive individuals who are equipped to tackle the challenges of a rapidly changing climate.

Some potential strategies that can be considered include integrating climate change education into various subjects, implementing hands-on learning experiences such as school gardens or waste management programs, and collaborating with local organizations and experts to provide students with real-world opportunities to engage with environmental issues. Additionally, leveraging technology and online resources can help schools reach a wider audience and facilitate ongoing education and awareness campaigns. Ultimately, by investing in climate change education and empowering students to become agents of change, we can create a more sustainable future for Indonesia and beyond. For example, a school in Jakarta could partner with a local environmental NGO to create a waste management program where students learn about recycling and composting through hands-on activities in the school garden. They could also use social media platforms and online resources to share their progress and educate the wider community about the importance of sustainability. By engaging students in these practical experiences and leveraging technology, the school can foster a culture of environmental stewardship that will have a lasting impact on both the local community and the planet as a whole.

Additionally, the school could organize field trips to local recycling facilities or environmental conservation areas to further enhance students' understanding of the impact of their actions on the environment. By providing these real-world experiences, students will be able to see the direct effects of their efforts and develop a deeper appreciation for the importance of sustainable practices. Furthermore, the school could collaborate with other schools in the area to host workshops or events focused on environmental education, creating a network of like-minded individuals dedicated to making a positive impact on the world around them. Through these collective efforts, the school can inspire a generation of environmentally conscious leaders who will continue to advocate for sustainability long after they have graduated.

By fostering a culture of sustainability within the school community, students will not only learn about the importance of environmental stewardship, but also gain practical skills that they can apply in their everyday lives. From organizing waste reduction initiatives to implementing energy-saving measures, students will have the opportunity to make a tangible

difference in their school and beyond. Through hands-on learning opportunities and real-world engagement, students will be empowered to take ownership of their impact on the environment and become active agents of change. This holistic approach to environmental education will not only benefit the school community, but also contribute to a more sustainable future for all.

b) Existing gaps and challenges in integrating climate change in curriculum

Include the need for updated resources and training for educators, as well as the importance of incorporating diverse perspectives and experiences into the conversation. By addressing these gaps and challenges, schools can create a more comprehensive and inclusive approach to climate change education that equips students with the knowledge and skills needed to address the complex environmental issues of our time(Mardani et al., 2023). Through collaboration with community partners and stakeholders, schools can also foster a sense of collective responsibility and commitment to sustainability that extends beyond the classroom walls. By prioritizing climate change education and taking proactive steps to address existing challenges, schools can play a crucial role in shaping a more sustainable future for generations to come.

This can be achieved by integrating climate change education across various subjects and grade levels, ensuring that students receive a well-rounded understanding of the interconnected nature of environmental issues. In addition, schools can provide opportunities for hands-on learning experiences, such as field trips to local environmental organizations or participation in community clean-up initiatives. By engaging students in real-world applications of their learning, schools can inspire a sense of agency and empowerment in the fight against climate change. Furthermore, by incorporating diverse perspectives and voices into the curriculum, schools can help students recognize the global implications of climate change and the importance of working together to find sustainable solutions(Mardani, 2023).

Fostering a sense of environmental stewardship and collaboration, schools can equip students with the knowledge and skills needed to address the challenges of climate change. Encouraging students to think critically about the impact of their actions on the environment and to explore innovative solutions can help cultivate a generation of environmentally-conscious individuals. Through a holistic approach to education that integrates sustainability principles into various subjects, schools can play a crucial role in shaping a more sustainable future for our planet.

c) Efforts made by the government or organizations to address climate change education

Incorporating real-world examples and case studies into the curriculum, students can gain a deeper understanding of the complexities of climate change and the importance of taking action. Additionally, schools can provide opportunities for students to participate in hands-on projects and initiatives that promote environmental stewardship and sustainability. By fostering a culture of environmental responsibility within the school community, students can develop the skills and mindset needed to become active agents of change in the fight against climate change. Ultimately, by investing in climate change education, schools can empower students to become informed and engaged citizens who are committed to creating a more sustainable and resilient future for all.

One way that schools can promote climate change education is by integrating relevant topics into their curriculum across various subjects. This can include incorporating lessons on the science of climate change, its impacts on ecosystems and communities, and the importance of taking collective action. By providing students with a comprehensive understanding of the issue, schools can empower them to make informed decisions and advocate for meaningful

change. Additionally, schools can invite guest speakers, organize field trips to environmental organizations, and host events focused on sustainability to further engage students in the cause.

These hands-on experiences can deepen students' understanding of environmental issues and inspire them to take action in their own lives. By creating a culture of environmental awareness and activism within the school community, educators can instill a sense of responsibility and stewardship in the next generation. Furthermore, by collaborating with local environmental organizations and experts, schools can provide students with real-world opportunities to contribute to environmental conservation efforts and make a tangible impact in their communities. Through these efforts, schools can play a crucial role in shaping environmentally conscious and socially responsible citizens who are equipped to address the challenges of a rapidly changing world.

Environmental education into the curriculum, students can develop a deeper understanding of the interconnectedness of ecosystems and the importance of sustainability. This knowledge can empower them to make informed decisions and take action to protect the environment. Additionally, schools can create green initiatives, such as recycling programs and energy conservation projects, to reduce their carbon footprint and inspire students to adopt eco-friendly practices in their daily lives. By fostering a culture of environmental stewardship, schools can cultivate a generation of environmentally conscious individuals who are committed to preserving the planet for future generations(Mardani, 2023; Mardani et al., 2023).

d) Benefits of Integrating Climate Change in Education Curriculum

1) Increased awareness and knowledge about climate change

Increased awareness and knowledge about climate change can lead to informed decision-making and behavior changes that contribute to sustainable living practices. By integrating climate change into the education curriculum, students can develop critical thinking skills, problem-solving abilities, and a sense of responsibility towards the environment. This holistic approach to education not only prepares students for the challenges of a changing climate, but also empowers them to become active participants in creating a more sustainable future(Aji & Rosyad, 2020b).

Furthermore, incorporating climate change into the curriculum can help students understand the interconnectedness of environmental, social, and economic issues. By examining the causes and effects of climate change, students can develop a deeper appreciation for the importance of conservation and sustainable practices. This knowledge can also inspire students to take action in their own lives and communities to mitigate the impacts of climate change. Ultimately, integrating climate change into the education curriculum can foster a generation of environmentally conscious and socially responsible individuals who are equipped to address the complex challenges of the 21st century.

Furthermore, incorporating climate change education into school curriculums can help students understand the urgency of the situation and the need for immediate action. It can empower them to advocate for policy changes, participate in environmental initiatives, and make informed choices that reduce their carbon footprint. By instilling a sense of responsibility and stewardship for the planet at a young age, we can cultivate a generation of leaders who are committed to creating a more sustainable and resilient future for all. In this way, education becomes a powerful tool for shaping a more environmentally conscious and socially just society.

Through education, students can learn about the interconnectedness of environmental issues and social justice, and how they can work together to create positive

change. By integrating sustainability principles into various subjects, such as science, social studies, and even literature, students can develop a holistic understanding of the challenges facing our planet and the opportunities for solutions. Additionally, schools can provide hands-on learning experiences, such as community clean-up projects or gardening initiatives, that allow students to see the impact of their actions firsthand. This experiential learning can help foster a sense of empathy and connection to the natural world, motivating students to take meaningful action in their own lives and communities. Ultimately, by prioritizing environmental education in schools, we can equip the next generation with the knowledge and skills they need to address the pressing environmental issues of our time.

2) Empowerment of students to take action to mitigate climate change

One way to empower students to take action to mitigate climate change is to provide them with opportunities to participate in hands-on projects that directly address environmental issues. This could involve organizing school-wide recycling programs, hosting educational workshops on sustainable living practices, or even collaborating with local environmental organizations on conservation efforts. By actively engaging students in these initiatives, we can instill a sense of responsibility and agency in them to make a positive impact on the planet. Additionally, incorporating climate change education into the curriculum can help students understand the science behind global warming and the urgency of taking action to address it. By arming students with knowledge and practical skills, we can empower them to become environmental stewards and advocates for a more sustainable future.

This approach not only benefits the environment but also provides students with valuable real-world experience and opportunities for personal growth. By participating in hands-on projects and initiatives, students can develop critical thinking skills, problem-solving abilities, and a deeper appreciation for the natural world. Furthermore, engaging in environmental education can foster a sense of community and collaboration among students, as they work together towards a common goal of creating a healthier planet for future generations. Ultimately, by integrating climate change education into the school curriculum, we can help cultivate a generation of environmentally conscious and proactive individuals who are equipped to tackle the challenges of a rapidly changing world.

3) Preparation of future generations to adapt to the impacts of climate change

Preparation of future generations to adapt to the impacts of climate change is essential in ensuring the sustainability of our planet. By arming students with the knowledge and skills needed to understand and address environmental issues, we are setting them up for success in a world where climate change is an increasingly urgent concern. Through education and action, we can empower young people to become leaders in the fight against global warming and inspire positive change in their communities and beyond (Mardani, 2023). Instilling a sense of environmental responsibility and stewardship in our youth, we are cultivating a generation of environmentally conscious and proactive individuals who are committed to making a difference. Through hands-on learning experiences, such as participating in conservation projects or engaging in sustainability initiatives, students can develop a deep appreciation for the natural world and gain the tools they need to become effective advocates for the planet. By fostering a sense of environmental awareness and activism in our schools, we can help create a more sustainable future for generations to come.

This can be achieved through integrating environmental education into school curriculums, providing opportunities for students to engage in eco-friendly practices, and

promoting a culture of environmental responsibility within the school community. By instilling these values early on, we can empower our youth to become leaders in the fight against climate change and environmental degradation. Additionally, by incorporating environmental themes into various subjects, such as science, social studies, and even art, we can help students see the interconnectedness of all living things and the importance of protecting our planet for future generations.

Strategies for Integrating Climate Change in Education Curriculum

a) Incorporating climate change topics in various subjects

Incorporating climate change can be done through a variety of strategies. This can help make the issue feel more relevant and immediate to them. Another strategy is to invite guest speakers or experts in the field to talk to students about climate change and its impacts (J. et al., 2011). This can provide real-world examples and insights that can deepen students' understanding of the issue. Additionally, incorporating hands-on activities, such as experiments or projects related to climate change, can help students engage with the material in a more meaningful way. By using these strategies, educators can ensure that climate change becomes a central part of the curriculum, helping to educate and inspire the next generation of environmental stewards.

This hands-on approach can also foster a sense of empowerment and agency in students, showing them that they have the ability to make a difference in addressing climate change. Furthermore, incorporating discussions about potential solutions and actions that individuals can take can motivate students to become more environmentally conscious in their daily lives. By integrating these various teaching methods, educators can create a comprehensive and impactful curriculum that not only educates students about the science of climate change, but also empowers them to take action and make a positive impact on the world around them (Trott, 2020).

An approach not only fosters critical thinking and problem-solving skills, but also instills a sense of responsibility and stewardship towards the environment. By encouraging students to think creatively and collaboratively, educators can cultivate a generation of environmentally-conscious individuals who are equipped to tackle the challenges of climate change head-on. Additionally, providing opportunities for hands-on learning and real-world experiences can further enhance students' understanding and engagement with the topic. Overall, a holistic approach to teaching about climate change can inspire students to become active agents of change in creating a more sustainable future for all (Uzorka et al., 2024).

One way to incorporate this holistic approach is through project-based learning, where students can work on sustainability initiatives within their school or community. This hands-on experience allows students to see the direct impact of their actions and fosters a sense of responsibility towards the environment. Furthermore, integrating climate change education across various subjects can help students see the interconnectedness of environmental issues and how their actions can make a difference. By making these connections, students are more likely to take ownership of their role in creating a sustainable future (Leal Filho et al., 2016). This holistic approach to climate change education not only empowers students to take action, but also equips them with the knowledge and skills needed to address complex environmental challenges. By engaging students in real-world projects and integrating sustainability into their curriculum, schools can cultivate a generation of environmentally conscious individuals who are committed to making a positive impact on the planet. Additionally, fostering a culture of sustainability within schools can inspire students to carry these values with them beyond the

classroom and into their future endeavors. As the next generation of leaders, it is essential that students are equipped with the tools and mindset to address the pressing environmental issues facing our world today (Schreiner et al., 2005).

b) Implementing experiential learning activities related to climate change

Engaging in hands-on projects such as community clean-ups, tree planting initiatives, and composting programs, students can see firsthand the impact of their actions on the environment (Hagen, 2011). These experiential learning opportunities not only reinforce the importance of sustainability, but also empower students to take ownership of their role in creating a more sustainable future. By incorporating these activities into the curriculum, schools can instill a sense of environmental stewardship in students that will stay with them for a lifetime. As students become more involved in these sustainability initiatives, they develop a deeper connection to the natural world and a greater sense of responsibility towards protecting it. Through these hands-on projects, students learn practical skills that they can apply in their everyday lives to reduce their ecological footprint. They also gain a sense of pride and accomplishment in knowing that their efforts are making a positive impact on the environment. This sense of agency and empowerment motivates students to continue advocating for sustainability and taking action to create a more sustainable future for themselves and future generations (Bonnett, 2013).

As they see the tangible results of their efforts, students become more passionate about environmental conservation and are inspired to take on larger projects. They begin to see themselves as stewards of the planet, responsible for preserving its beauty and resources for future generations. This mindset shift not only benefits the environment, but also helps students develop important leadership skills and a sense of community. By working together towards a common goal, students learn the value of collaboration and teamwork, setting them up for success in their future endeavors. Ultimately, these sustainability initiatives not only have a positive impact on the environment, but also on the personal growth and development of the students involved.

They learn to think critically, problem-solve, and communicate effectively with others, all of which are essential skills in today's interconnected world. Additionally, being part of a sustainability project can foster a sense of pride and accomplishment, boosting students' self-esteem and confidence. As they see the tangible results of their efforts, they are inspired to continue making a difference and become more engaged citizens in their communities. Overall, the benefits of incorporating sustainability initiatives into education go far beyond just environmental conservation, shaping the leaders of tomorrow and creating a more sustainable future for all. For example, a school could implement a composting program where students learn about the importance of reducing food waste and the environmental benefits of composting. Students can take pride in seeing their efforts turn into nutrient-rich soil that can be used to grow fruits and vegetables in a school garden, creating a sense of ownership and responsibility for their actions. This hands-on experience not only teaches valuable lessons about sustainability but also empowers students to take action and make a positive impact on their environment.

These values early on, schools can help shape the next generation of environmentally conscious individuals who will continue to prioritize sustainability throughout their lives (Palmer, 2002). In addition to composting programs, schools can also implement energy-saving initiatives, recycling programs, and educational campaigns to raise awareness about the importance of protecting the planet. By taking a proactive approach to sustainability education, schools can play a crucial role in creating a more sustainable future for all.

c) Training teachers on how to effectively teach about climate change

Environmental issues can also be a key component of a school's sustainability education efforts. By equipping educators with the knowledge and resources to effectively communicate these important topics to students, schools can ensure that the next generation is well-informed and empowered to take action. Additionally, incorporating sustainability principles into the curriculum across various subjects can help students see the interconnectedness of environmental issues with other aspects of their lives. This holistic approach to sustainability education can foster a deeper understanding and appreciation for the importance of protecting the planet for future generations.

Integrating sustainability principles into subjects such as science, social studies, and even language arts, students can learn about the environmental impacts of their actions and the ways in which they can make a positive difference. This interdisciplinary approach allows students to see how their individual choices and behaviors can contribute to the overall health of the planet. Furthermore, by providing hands-on learning experiences, such as participating in community clean-up events or starting a school garden, students can develop a sense of ownership and responsibility for the environment. Through these efforts, schools can cultivate a generation of environmentally-conscious and socially responsible citizens who are equipped to address the challenges of a rapidly changing world.

d) Outcomes and impact of integrating climate change in curriculum

Outcomes of integrating climate change into the curriculum have been significant, with students demonstrating a deeper understanding of environmental issues and a greater sense of responsibility towards sustainability. By engaging in hands-on learning experiences and collaborative projects, students have been able to see the direct impact of their actions on the environment and society as a whole. This has led to a shift in mindset among students, who are now more inclined to take action and advocate for sustainable practices in their communities. The impact of this shift is not only seen in the classroom, but also in the broader community, where students are actively involved in raising awareness and implementing initiatives to address climate change.

For example, students have organized community clean-up events, participated in local environmental organizations, and even lobbied for policy changes at the municipal level. This newfound passion for sustainability has not only empowered students to make a difference in their own lives, but has also inspired others to join the movement towards a more sustainable future. As a result, the school has become a hub of environmental activism, with students leading the charge for positive change in their communities. The impact of these efforts has been far-reaching, creating a ripple effect that is felt beyond the school walls and into the wider world.

One of the most notable achievements of the students has been the successful implementation of a school-wide recycling program, which has significantly reduced the amount of waste generated on campus. In addition, students have worked with local businesses to promote sustainable practices and have organized community clean-up events to improve the health of the surrounding environment. Through their hard work and dedication, these students have shown that small actions can lead to big results when it comes to protecting the planet. The school's commitment to sustainability has not only transformed the campus itself, but has also inspired other schools in the area to follow suit and take action towards a more sustainable future.

As a result, the entire community has become more conscious of their environmental impact and has made efforts to reduce their carbon footprint. This collective effort has created

a ripple effect, leading to a cleaner and healthier environment for everyone to enjoy. By working together and taking small steps towards sustainability, the school and its students have set an example for others to follow, showing that change is possible when individuals come together for a common goal. The impact of their actions will be felt for years to come, as future generations continue to benefit from a more sustainable and environmentally friendly community.

CONCLUSION

Integrating climate change into the education curriculum can be achieved through various strategies that promote relevance and engagement among students. This includes incorporating climate change topics across subjects, inviting guest speakers, and conducting hands-on activities like experiments, community clean-ups, and sustainability projects. Such experiential learning fosters critical thinking, problem-solving skills, and a sense of environmental stewardship, empowering students to take action. By using project-based learning, students can participate in local sustainability initiatives, understanding the interconnectedness of environmental issues, which encourages ownership of their roles in creating a sustainable future. Training educators to effectively teach climate change and integrating sustainability principles into the broader curriculum can further enhance this learning. The outcomes of these initiatives have shown significant positive impacts, including increased student awareness and community involvement in environmental conservation efforts, resulting in successful projects like school-wide recycling programs and local advocacy for sustainability. Overall, these educational).

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