



PROJECT WORK WITH STUDENTS IN ENVIRONMENTAL PROTECTION CLASSES

Safarova Dilobar

(deputy of director in Nurafshon Presidential school)

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Abstract. Work on creating a biodiversity map of the local area. Identify and document plant and animal species, noting any invasive species that may pose a threat to the local ecosystem. Encourage creativity by organizing workshops on upcycling and creating eco-friendly crafts using recycled materials. Showcase the finished products in an exhibition to raise awareness about the importance of repurposing materials. Conduct an energy audit within the school or community to identify areas for improvement. Implement energy-saving measures and educate others on how to reduce energy consumption.

Аннотация. Поработайте над созданием карты биоразнообразия местной территории. Определите и задокументируйте виды растений и животных, отмечая любые инвазивные виды, которые могут представлять угрозу для местной экосистемы. Поощряйте творчество, организуя мастер-классы по переработке и созданию экологических поделок из вторичных материалов. Представьте готовые изделия на выставке, чтобы повысить осведомленность о важности повторного использования материалов. Проведите энергоаудит в школе или общине, чтобы выявить области, требующие улучшения. Внедрите меры по энергосбережению и расскажите другим о том, как сократить потребление энергии.

Key words: projects, students, native tree, challenge, creativity, planting process

Ключевые слова: проекты, студенты, родное дерево, челлендж, творчество, процесс посадки

Working on a project with students in environmental protection classes can be an exciting and meaningful endeavor. Here are some project ideas that can engage students in learning about and contributing to environmental protection: Plan and organize a community cleanup event where students can actively participate in cleaning up local parks, rivers, or other public spaces.

Document the amount and types of waste collected, and discuss the impact of litter on the environment. Conduct workshops or seminars in local schools or community centers to educate others about environmental issues, conservation practices, and sustainable living. Creating educational materials, such as brochures or presentations, to distribute during these workshops.

Tree Planting Initiative: collaborate with local organizations or government agencies to organize a tree planting event. Research and select native tree species suitable for the local environment, and involve students in the planting process. Develop a campaign to promote waste reduction and recycling within the school or community. Create informational posters, organize awareness events, and encourage the implementation of recycling programs.

Choose a specific area or ecosystem and conduct an environmental impact assessment. Students can analyze the impact of human activities, habitat destruction, or pollution and propose solutions for mitigating these effects.

Investigate local water usage patterns and issues related to water scarcity.

Develop and implement water conservation initiatives, such as installing rain barrels, promoting efficient irrigation methods, or organizing awareness campaigns.

Work on creating a biodiversity map of the local area. Identify and document plant and animal species, noting any invasive species that may pose a threat to the local ecosystem. Encourage creativity by organizing workshops on upcycling and creating eco-friendly crafts using recycled materials.

Showcase the finished products in an exhibition to raise awareness about the importance of repurposing materials. Conduct an energy audit within the school or community to identify areas for improvement. Implement energy-saving measures and educate others on how to reduce energy consumption.

Have students work in groups to create a documentary or podcast series focused on local environmental issues. Share the final products through school channels or local media to raise awareness. When working on these projects, it's important to incorporate elements of research, critical thinking, and collaboration. Additionally, connecting with local environmental organizations, experts, or government agencies can provide valuable resources and support for the projects.

Classroom Resources:

Books and Articles:

"Silent Spring" by Rachel Carson

"This Changes Everything" by Naomi Klein

"The Sixth Extinction" by Elizabeth Kolbert

Access to scientific articles on environmental topics.

Documentaries and Films:

"An Inconvenient Truth"

"Before the Flood"

"Our Planet" (Netflix series)

"The True Cost" (focusing on the environmental impact of the fashion industry)

Websites and Online Platforms:

National Geographic's website for educational resources.

Environmental Protection Agency (EPA) resources for students.

World Wildlife Fund (WWF) education page.

TED-Ed lessons on environmental topics.

Interactive Tools:

Carbon footprint calculators (e.g., from WWF or EPA).

Online simulations illustrating environmental processes.

Geographic Information System (GIS) tools for mapping environmental data.

Local Environmental Organizations:

Connect with local environmental groups for guest lectures or field trips.

Collaborate with organizations that may provide resources or support for student projects.

Ecological Restoration Project:

Identify a local area in need of ecological restoration and develop a plan for rehabilitation.

Involve students in planting native species, removing invasive plants, and monitoring progress over time.

Environmental Impact Assessment:

Choose a specific product or industry and conduct an environmental impact assessment. Analyze the life cycle of the product or the industry's processes and propose sustainable alternatives.

Green School Initiative:

Develop a project to make the school more environmentally friendly.

Implement waste reduction programs, energy-efficient practices, or water conservation measures. Challenge students to adopt sustainable living practices for a set period. Document their experiences, challenges faced, and the overall impact of the lifestyle changes. Organize an environmental education fair in collaboration with other classes or schools. Have students create interactive exhibits, presentations, or games to educate the community about environmental issues. Create a campaign to raise awareness about a specific type of pollution (air, water, noise, etc.).

Develop materials such as posters, brochures, and social media content to convey the message. Combine art and environmental awareness by having students create artworks using recycled materials. Display the art in a gallery or around the school to inspire others. Investigate renewable energy sources available in the local area.

Design and build small-scale models or prototypes of renewable energy systems. Engage students in citizen science initiatives related to environmental monitoring. Use tools like iNaturalist for biodiversity observations or participate in water quality monitoring programs. Have students research local, national, or international environmental legislation. Analyze the effectiveness of these laws and propose improvements or advocate for new policies. Remember to tailor these ideas to the specific interests and capabilities of your students. Projects that allow for creativity, critical thinking, and real-world application tend to be the most engaging and impactful.

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