



Project No.7

This project was created by a Green Skills Teacher Ambassador as part of the EcoAI EduNetwork Initiative (EAIEN). Developed within the scope of the online course AI-Empowered Green Skills Education, it demonstrates how teachers can integrate artificial intelligence (AI) tools and sustainability competences into a meaningful, student-centered learning experience.

Designed to be implemented within a single subject or through cross-disciplinary collaboration, the project promotes green skills and artificial intelligence literacy in the classroom. It shows how AI can serve as both a teaching assistant and a catalyst for empowering students to think critically and act sustainably and preparing them to become responsible, future-ready learners.



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Mapping Our Eco Footprint



Project Description

In this project, students take on the role of environmental investigators, using digital mapping and AI tools to visualize the ecological footprint of their school. By creating an interactive map of the schoolyard and its surroundings, they identify and mark green areas (such as trees, gardens, and relaxation spaces) alongside pollution sources (such as waste spots, concrete zones, or areas lacking recycling bins). With the help of AI, students analyze photographs, receive automated improvement suggestions, and design a campaign to transform their school into a more sustainable and pleasant environment.

The project integrates digital literacy, environmental science, and creative problem-solving. It encourages learners to connect data, observation, and ethics, showing how technology can support ecological awareness and action.

Objectives



- Identify and map green and polluted areas within the school's environment.
- Design an awareness campaign for school-wide ecological transformation.
- Strengthen teamwork, creativity, and digital communication skills.
- Promote active participation and ownership in school sustainability efforts.



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Related School Subjects



Environmental Science, ICT, Geography, Art & Design.



Green Skills

Communication, Action Planning, Digitalization, Ecology, Critical Thinking, Creativity.



AI Tools

Google Maps (digital mapping), ChatGPT (analysis and campaign writing), DALL·E (visual creation of improved green areas), Canva Video Editor (campaign video production).



Example Prompts

“Analyze this photo of a schoolyard and suggest ways to make it more eco-friendly.”

“Generate a list of small green actions to improve polluted or neglected areas.”

“Create a map legend for green zones and pollution sources in the school.”

“Write a one-minute script for a video promoting a greener school environment.”

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Notes to the teacher



Stage 1: Define the Challenge

Introduce students to the concepts of ecological footprint and spatial sustainability. Have them explore their school environment and identify visible green areas and pollution sources. Encourage data collection through photos and observation.

Stage 2: Design & Prototype

Guide students in using Google Maps or similar tools to build a digital map. Support them in uploading photos, analyzing them with AI, and generating improvement suggestions. Help them visualize the “before” and “after” of potential transformations using DALL·E or Canva.

Stage 3: Communicate & Showcase

Students present their digital maps and eco-campaigns in a “Green Lens Exhibition.” Encourage them to publish digital versions on the school website or share short video clips to raise awareness within the community.

Teacher Tips

- Foster collaboration between science and ICT teachers.
- Encourage students to use AI critically and ethically when generating ideas or visuals.
- Connect this project with real environmental initiatives in the local community.
- Highlight the value of visual storytelling and data-driven action for sustainability.