

## Erasmus + Project “Play Green with US!”

### Developed by

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All project materials are available at [pgwu-erasmus.pl](http://pgwu-erasmus.pl)

## Ekogry terenowe

Jako dynamiczne rozwinięcie projektu „Graj z nami w zielone!”, zaprojektowaliśmy trzy unikalne gry terenowe, które przenoszą edukację środowiskową poza mury klas lekcyjnych. Te aktywności na świeżym powietrzu mają na celu bezpośrednie połączenie uczestników z naturą, zmieniając lokalny ekosystem w „żywe laboratorium” odkryć i działań ekologicznych.

Podczas gdy nasze gry planszowe skupiają się na myśleniu strategicznym i recyklingu, gry terenowe kładą nacisk na obserwację, zaangażowanie fizyczne oraz rozwiązywanie rzeczywistych problemów. Poprzez interakcję z najbliższym otoczeniem, gracze zyskują głębsze zrozumienie bioróżnorodności oraz namacalnych skutków działalności człowieka dla środowiska.

### Główne cele serii terenowej:

- **Aktywna eksploracja:** Zachęcanie młodzieży do poznawania lokalnych terenów zielonych oraz dostrzegania wartości rodzimej flory i fauny.
- **Rozwój fizyczny i społeczny:** Połączenie aktywności ruchowej z wyzwaniem zespołowymi, które wymagają skutecznej komunikacji i koordynacji.

Te trzy gry stanowią pomost między teorią ekologiczną a praktyką ochrony środowiska, kształtując poczucie odpowiedzialności za wspólną przestrzeń, w której żyjemy. Dowodzą one, że najbardziej

wpływowe lekcje to często te odbierane pod gołym niebem.

## Outdoor Eco-Games

### Introduction:

As a dynamic extension of the "Play Green With Us!" project, we have designed three unique outdoor games that take environmental education beyond the classroom. These field activities are designed to connect participants directly with nature, turning the local ecosystem into a living laboratory for discovery and ecological action.

While our board games focus on strategic thinking and recycling, the outdoor games emphasize observation, physical engagement, and real-world problem-solving. By interacting with their immediate surroundings, players gain a deeper understanding of biodiversity and the tangible effects of human activity on the environment.

Core Objectives of the Outdoor Series:

- **Active Exploration:** Encouraging youth to explore local green spaces and recognize the value of native flora and fauna.
- **Physical & Social Development:** Combining physical activity with team-based challenges that require effective communication and coordination.

These three games serve as a bridge between ecological theory and environmental practice, fostering a sense of responsibility for the shared spaces we inhabit. They prove that the most impactful lessons are often those learned under the open sky.

# Clean Air Guardians

A field game that interactively and educationally teaches children about environmental protection and the fight against smog. Through play and teamwork, participants learn about the sources of air pollution and how to protect it.

## Air Game

### Main Goal

To make participants aware of what pollutes the air and how it can be protected through practical experiences and interactive learning.

Environmental education through play is the most effective way to shape environmental awareness in young people.



The game combines elements of sport, environmental knowledge and creativity, creating a comprehensive educational experience for all participants.

# Team Organisation

## Team Division

Each team consists of 3-6 people, ensuring optimal cooperation and engagement of all participants.

- Age diversity within teams
- Even distribution of skills
- Fostering a spirit of cooperation

## Points Map

Themed stations are strategically located within the game area, creating a route full of educational challenges.

- Clearly marked checkpoints
- Logical sequence of tasks
- Safe locations

# Station 1: Recognise Smog Sources

## Identification Task

Teams receive pictures of different situations and must indicate what harms and what helps the air. This is a crucial task for developing ecological awareness.

### Factory chimney

Source of industrial air pollution

### Coal furnace

Domestic source of smog, especially during the heating season

### Cyclist

Ecological means of transport, environmentally friendly

### Forest

Natural air filter, oxygen producer



# Station 2: Breathe Clean Air

## Experience Difficulty Breathing

A short obstacle course with dust masks or scarves to feel how difficult it is to breathe in polluted air. This practical experience shows the real impact of smog on our health.

01	02	03
<b>Putting on Masks</b>	<b>Completing the Course</b>	<b>Reflection</b>
Participants put on dust masks or scarves on their faces	Overcoming a simple obstacle course with restricted breathing	Discussion of feelings and comparison with everyday breathing

⚠ This task helps to understand how polluted air affects our daily functioning and health.

# Station 3: Ecological Quiz

## Word Search

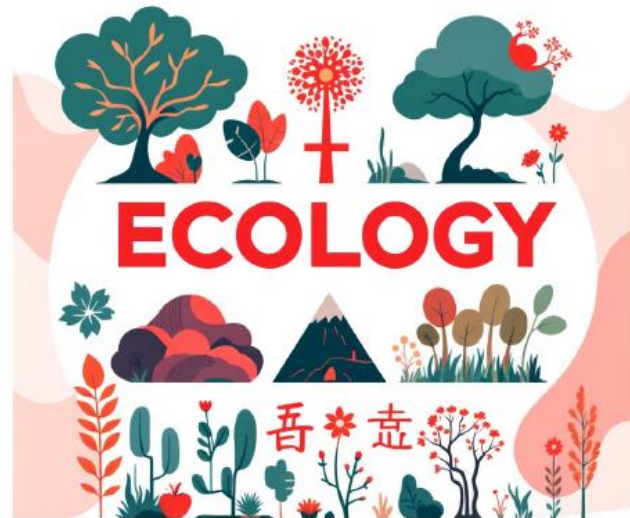
Teams are tasked with finding as many words related to clean air and ecology as possible. This task develops ecological vocabulary and consolidates knowledge.

### Word Categories

- Sources of pollution
- Methods of protection
- Ecological transport
- Renewable energy sources

### Examples

- Photovoltaics
- Recycling
- Electromobility
- Bioenergy



The quiz stimulates creative thinking and helps participants systematise knowledge about environmental protection.

## Station 4: Dust Hunters

### Searching for Hidden Cards

The team must find hidden cards with symbols of pollution and means of transport in the game area. This task combines physical activity with environmental education.

#### Search



Systematic searching of the designated area in search of hidden cards

#### Identification



Recognising the symbols on the found cards and classifying them

#### Cooperation



Teamwork in collecting and analysing found materials

Active searching develops observation and teamwork skills, while consolidating knowledge about sources of pollution.



## Station 5: Plant Shield

### Artistic Task

Arranging the slogan "Clean Air" from leaves and sticks. This creative task combines art with ecological education, showing the role of plants in air purification.

#### Collecting Materials

Searching for suitable leaves and sticks in the surroundings

#### Creating the Slogan

Arranging letters from natural materials

#### Documentation

Capturing the work in a photo



The task develops creativity and shows how nature can be our ally in the fight for clean air.

# Final and Summary

## Return to the Finish Line

All teams return to the finish line, where the game is summarised and certificates are awarded. This is a moment to celebrate the knowledge gained and the commitment shown.

- 1 Team Gathering**  
All teams meet at the designated location.
- 2 Presentation of Results**  
Each team shares their discoveries and experiences.
- 3 Awarding of Certificates**  
Official appointment as "Guardians of Clean Air"

## Guardian Certificate

Each participant receives a personalised certificate confirming their commitment to environmental protection and their acquired ecological knowledge.



C	L	E	A	N	A	I	R	Q	W	E	R	T	Y	U
S	M	O	G	O	R	E	F	O	R	E	S	T	I	N
P	R	O	T	E	C	T	P	L	A	N	E	T	S	A
G	R	E	E	N	E	N	E	R	G	Y	Y	I	O	P
A	T	M	O	S	P	H	E	R	E	E	M	I	S	I
R	E	C	Y	C	L	I	N	G	T	R	A	S	O	L
W	I	N	D	P	O	W	E	R	E	C	O	B	R	G
F	O	S	S	I	L	F	U	E	L	S	T	O	P	S
T	R	E	E	S	P	A	R	K	S	R	A	I	N	E
E	L	E	C	T	R	I	C	C	A	R	U	S	A	E
S	U	N	S	O	L	A	R	P	A	N	E	L	S	Z

# Mission O2

Planet Earth is in danger! The air is becoming increasingly polluted, and oxygen levels are dramatically dropping. As a team of eco-heroes, you have an incredibly important mission ahead of you – to recover five clean air capsules hidden in the area.

This outdoor game is not only fun but, above all, a lesson demonstrating how important our daily decisions are in the fight for clean air. Every step, every choice matters for the future of our planet!

## Mission Scenario

### Crisis Situation

Earth is losing oxygen at an alarming rate. Factories, cars and other sources of pollution are releasing millions of tonnes of harmful gases into the atmosphere. Scientists warn that without immediate action, our planet could lose its ability to produce clean air.

The last hope is five magical capsules containing the essence of clean air, which have been hidden by ecological scientists at various points in the terrain. Only the truest defenders of the environment will be able to find them!



⚠ **Warning!** Time is running out! The longer you delay, the more clean air we lose.

# Game Flow

01

## Mission Start

Each team receives a special map with marked points where the clean air capsules are hidden.

03

## Collecting the Capsules

The team must collect all five capsules by completing tasks in any order. Each challenge carries an important ecological lesson.



02

## The Search

At each marked point, a challenge awaits you – a riddle or a practical task related to environmental protection. Only a correct solution will allow you to obtain a capsule.

04

## Victory

After collecting all the capsules, the team receives the honourable title of "O2 Defenders" and becomes the official guardians of clean air!

On the map of the school's surroundings in Sarzyna, you will find subsequent stations with hidden capsules, marked with numbers 1-5.

At each point, there is a task to be completed.



# Task 1: The Mathematics of Air



## Calculate the ecological balance!

One car emits approximately **2 tonnes of CO<sub>2</sub>** annually.  
One tree absorbs approximately **6 kg of CO<sub>2</sub>** annually.

**Question:** How many trees need to be planted to offset the annual emissions of one car?

Check your calculations on the special hint board located at the station. The correct answer is the key to the first capsule!

**Answer:** Approximately 330 trees annually!

# Task 2: Eco-Labyrinth



## Car 🚗

This is the shortest route, but beware! The path is blocked by thick smog. Cars are the main source of pollution in cities.



## Bicycle 🚲

A safe and ecological route leading directly to the capsule. Cycling means zero emissions and is a great way to stay physically active!



## On Foot 🚶

The longest route, but also leading to the goal. Walking is the cleanest mode of transport and an excellent opportunity to observe nature.

Choose the correct route and justify your choice. Remember – only ecological choices lead to success!

## Task 3: SOS Message



### Create an eco-friendly message!

Your mission is to arrange the inscription "**O2**" using only natural materials found in the area. You can use:

- Sticks and branches
- Leaves of various shapes
- Stones and gravel
- Pinecones and acorns
- Other natural elements

After arranging the message, take a photo or present your work to the facilitator. This task demonstrates how beautiful things can be created in harmony with nature!

✔ **Tip:** The larger and more creative the message, the greater the chances of finding the capsule!



## Task 4: Smog Enigma

### Encryption Instructions

Shift each letter forward by **1 position** in the alphabet:

A → B, B → C, C → D, etc.

### Encoded Password

**RNLF = VNPJ**

Use the cipher key to uncover the true message!

**Challenge:** Decipher the secret password and discover the truth about the biggest enemy of clean air!

This task develops logical thinking skills and demonstrates the importance of understanding environmental threats. The correct answer is: SMOG = ENEMY

# Task 5: The Clean Air Balloon

## Mission of Delicacy

The final task is a true test of skill and patience. Each team member must inflate a balloon representing a **clean air capsule**.

Then, they must carry the balloon through a specially prepared slalom course without letting it touch the ground. This symbolises the daily protection of air – every move we make matters!

- Inflate the balloon carefully
- Hold it securely
- Navigate through all obstacles
- Reach the finish line without dropping it


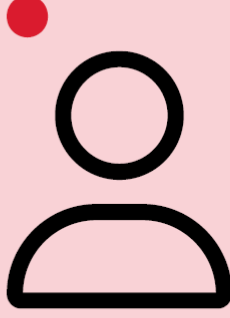



⚠ **Remember:** The balloon symbolises the delicacy of our air!

Congratulations, O2 Defenders!

# MISSION ACCOMPLISHED!

🌱 You have become official O2 Defenders 🌱

 <p><b>Your Title</b> O2 Defenders - an elite group of ecological heroes</p>	 <p><b>Your Mission</b> Guardians of clean air, every day</p>	 <p><b>Your Goal</b> Protecting the planet for future generations</p>
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Remember: every ecological decision you make, from choosing transport to saving energy, has a real impact on the quality of the air we all breathe. You are now ambassadors for clean air!

Thank you for participating in Mission O2! 🌍🌱🌟

# Mission Summary

## Ecology Mathematics

You've learned to calculate the impact of our actions on the environment



## Protection and Care

You've learned to treat our precious air gently

## Conscious Choices

You've learned about different modes of transport and their impact on air



## Creativity with Nature

You've created a beautiful piece using only natural materials

## Problem Solving

You've deciphered a mysterious message about environmental threats

Through these five challenges, you've discovered how important daily decisions are in the fight for clean air. Each task brought with it a profound ecological lesson!

## EcoMission: Green Planet

An Outdoor Educational Game on Ecology

**Theme:** ecology, environmental protection, teamwork

**Duration:** approx. 60–90 minutes

**Participants:** students aged 12+

**Teams:** 4–6 groups of 4–6 participants

**Materials:** area map, ball (symbolizing the Earth), worksheets, envelopes with tasks, pens, coloured pencils, team badges.

### Objective of the Game

Teams explore the area (schoolyard, garden, or nearby park) and complete ecological tasks at designated stations. The goal is to earn as many points as possible and save the 'Green Planet' – the ball representing Earth.

### Preparation

Set up 5–6 stations marked on the map. At each point, place an envelope with the task instructions and necessary materials.

### Example Stations and Tasks

#### Station 1: Sorting Wonders

Teams receive a set of illustrations or labels with different types of waste. They must assign each to the correct recycling bin: paper, plastic, bio, glass, or mixed. Scoring: 1 point per correct answer.

## Station 2: Eco Balance

Teams transport the ball (symbolizing Earth) across a set distance without touching it with their hands – only elbows, knees, or a stick can be used. Scoring: 5 points for completing without dropping the ball.

## Station 3: Green Quiz

Answer five questions about ecology (e.g., What is recycling? What does CO2 stand for? What tree symbolizes Poland?). Scoring: 2 points per correct answer.

## Station 4: Smog Detectives

On the map, indicate spots where air quality sensors could be installed and explain your reasoning. Scoring: 5 points for logical justification.



## Station 5: Eco Ad

Create a poster or slogan encouraging people to protect the environment. Scoring: 5 points for creativity and clarity.

## Station 6: Forest Mystery

Guess the plant or animal based on a description (e.g., 'I have needles instead of leaves and smell like Christmas' – spruce). Scoring: 1 point per correct answer.

## Finish Line

Teams finish the game by handing in their worksheets and the ball. Add up the points, announce the winners, and hand out symbolic prizes such as 'EcoChampion', 'Best Earth Guardian', or 'Green Team'.





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