

# United for the Environment:

## Let's Discover Bioplastics and Plants!

Erasmus Project - Italy | Slovakia | Greece | Hungary



### Objectives

- ✓ Understand what bioplastics are
- ✓ Discover the benefits of plants
- ✓ Learn how to protect the environment

✓ Understand what bioplastics are

### What We Will Learn



How bioplastics are made



The role of plants in Nature

### Activities Together



Experiments with bioplastics



Botany workshop



Environmental cleanup

### Assessment



A final quiz



Questions and answers

Let's work together for a greener future!

# **„Gemeinsam die Zukunft gestalten-nachhaltig die Welt mitgestalten und Veränderungen vorantrieben“**

## 1. Objectives

Objectives indicate what we want students to learn and develop.

- Understand what bio-plastic is → Students should learn that there is a type of plastic made from plants, which is biodegradable and less polluting than traditional plastic.
  - Discover the benefits of plants → Understand how plants contribute to the environment, for example by producing oxygen, improving soil, or serving as raw materials for sustainable products.
  - Learn to protect the environment → Students develop awareness of how their daily actions affect nature and sustainability.
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## 2. Content

Content refers to the information and knowledge to be learned.

- How bio-plastic is made → Types of plants used (corn, potatoes, algae), simple production processes, and practical applications.
  - The role of plants in nature → Functions of roots, leaves, stems, and flowers; importance for biodiversity and oxygen production.
  - Environmental impact of plastic → Difference between traditional plastic and bio-plastic, and how to reduce pollution.
  - Examples from Erasmus countries → Environmental initiatives in Italy, Slovakia, Greece, and Hungary.
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## 3. Activities

Activities help put learning into practice.

- Bio-plastic experiments → Create small amounts of bio-plastic using simple materials to understand the process and observe how it works.
  - Botany workshop → Observe plants, identify their parts, and understand which ones can be used to produce bio-plastic.
  - Environmental clean-up → Practical sustainability actions, such as collecting waste or planting seeds.
  - International collaboration → Compare practices and experiences from the four participating countries (Italy, Slovakia, Greece, and Hungary) through video calls or shared posters.
  - Final project → Students created bio-plastics outdoors, in the sustainable classroom of our school, built thanks to the Erasmus project and the funds received.
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#### 4. Assessment

Assessment is used to check whether students have understood and applied the knowledge.

- Final quiz → Simple questions about bio-plastic, plants, and sustainability.
  - Group Q&A → Compare answers among students to encourage understanding and discussion.
  - Final project evaluation → Assess whether the poster/video shows clarity, scientific accuracy, and collaboration among students from different countries.
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#### 5. Expected Results

Expected results are the concrete benefits of the learning unit.

- Knowledge of plants used for bio-plastic → Students know which plants can be used and why.
- Environmental awareness → They understand the impact of traditional plastic and how to reduce it using sustainable alternatives.

- Collaborative and communication skills → Improved ability to work in groups, including with students from other countries, and to share ideas clearly.
- Motivation to protect the environment → Encouragement to take concrete actions for a greener future.