



# **“Green” and “Blue” education: empowering teachers and students across Europe**

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# Green and Blue Education for a better tomorrow



# What makes Green and Blue Education?

- **Competences** to help students and teachers understand, care, and act for the Planet
- Taking teaching and learning **outside the classroom** to embrace surroundings and nature
- **Contextualisation of STEM education** in society, connection with global environmental challenges
- **Nurture the students**, citizens of today and tomorrow





## CONTEXTUALISING STEM: Environmental Sustainability







# SCIENTIX<sup>®</sup>

The community for science  
education in Europe



## NBS EduWORLD Nature-based solutions Learning Activities for Ages 3 and Above. A Booklet for Non-Formal Educators

This set of Learning activities is designed to help educators, instructors and trainers in Youth Centers, Youth Camps, NBS and/or STEM Camps and other forms of non-formal instruction, bring the topic of nature-based solutions (NBS) to children and youth across Europe through structured and engaging approaches. The activities are divided into four indicative age groups (ages 3 to 16+) and are customized to various levels of knowledge about NBS, while also being linked to at least one of the GreenComp Sustainability Competence Areas and/or NBS societal challenge areas, and other applicable key skills and competences.

AGE	PROJECT	COPYRIGHT	DESCRIPTOR
3 - 19	<a href="#">NBS EduWORLD (Nature-Based Solutions Education Network)</a>		<a href="#">environment</a>

Read more →



## Terra mission planting guide

Life Terra's Guide for School Plantings is a guide that includes all the steps teachers and educators need to follow to organise a tree planting activity to inspire their students to take climate action, with tips for pedagogical and reflection activities before, during and after the planting event.

AGE	PROJECT	COPYRIGHT	DESCRIPTOR
8 - 14	<a href="#">Life Terra</a>		<a href="#">environment</a>

Read more →



## GENB TOOLKIT FOR TEACHERS - Elementary School

The GenB Toolkit is a rich collection of diverse resources, tools, and instructional materials designed to educate and raise awareness of the bioeconomy.

AGE	PROJECT	COPYRIGHT	DESCRIPTOR
9 - 13	<a href="#">Gen B (Informing and educating young people on more sustainable behaviours and choices to build a future Generation informed and interested in Bioeconomy)</a>		<a href="#">biology, biotechnology, chemistry, earth sciences, ecology, environment</a>

Read more →



## The COOLSCHOOLS Guidelines for schools: how to turn your schoolyard into a nature-based climate shelter

These Guidelines help School leaders, teachers, and community members such as parents, understand the practical steps and considerations to plan and design the transformation of the schoolyard into a nature-based climate shelter. A nature-based Climate Shelter is a green space in the schoolyard, that can be opened to the community during extreme weather events such as heatwaves. Nature-based climate shelter offer a range of benefits for health, learning, social cohesion, and biodiversity. The advice provided is based on the experience of four case-study cities (Barcelona, Brussels, Paris, Rotterdam), where municipalities have undertaken the transformation of a large number of schoolyards as part of their climate resilience strategy.

AGE	PROJECT	COPYRIGHT	DESCRIPTOR
18 - 25+	<a href="#">COOL SCHOOLS: Realizing potentials of nature-based climate shelters in school environments for urban transformation</a>		<a href="#">educational sciences, environment, equal opportunities, technology</a>

Read more →



## CATALOGUE OF INTEGRATED LEARNING SCENARIOS

This catalogue provides an overview and links to various Learning Scenarios developed by Carbon Act, offering primary and secondary teachers valuable ideas and guidance for implementing climate change-related activities at both the classroom and school levels.

AGE	PROJECT	COPYRIGHT	DESCRIPTOR
7 - 19	<a href="#">Carbon Act</a>		<a href="#">agriculture, applied sciences, biology, biotechnology, chemistry, earth sciences, ecology, environment</a>

Read more →



# Blue Education: Topics

- **Ocean literacy for all**, with accessible resources to foster understanding
- Restore, protect and maintain ocean biodiversity
- **Importance of the ocean in our daily lives**, (climate, food resources, overall human well-being)







New technologies help bring new and immersive learning experiences to overcome geographical barriers

**Environmental literacy accessible to all.**

[European Atlas of the Seas](#)



TECHNOLOGY & OCEAN LITERACY

# Green Education: Topics

- **Environmental sustainability** initiatives
- Bioeconomy **careers**
- **Nature-Based Solutions** (NBS), such as greening of school(yards)
- **Outdoor learning** , experiential hands-on approach, whole-school approach





# Green and Blue Education: Competences

- Learning for sustainability
- Knowledge, skills and attitudes
- Empathy, responsibility, and care for our planet



Access GreenComp in  
your language!

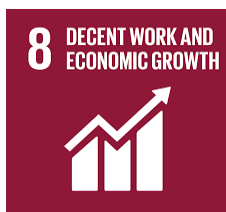




Life Terra is a European initiative with the mission to restore our connection with the Earth and to enable people to take impactful climate action now. We facilitate tree planting, educate future generations, and develop tree-monitoring technology.



Plant trees. Grow forests. Restore Earth.





# Education







# Life Terra Guide for School Plantings

- Why planting:
  - Environmental benefits
  - Social benefits
  - Pedagogical benefits
- This [guide](#) helps teachers to acquire all the knowledge needed to make tree school planting a meaningful and fantastic experience
  - Before, during and after the planting
  - **How to plant a tree step-by-step** depending on the climate conditions

## Guide for Life Terra School Planting

How to plant trees with your pupils	1
How to find land	2
How to select species	3
How to plant a tree step-by-step	4
How to tag your trees	6
Ideas for your School Planting	8
The Life Terra platform	9



# Terra Mission Educational Pack

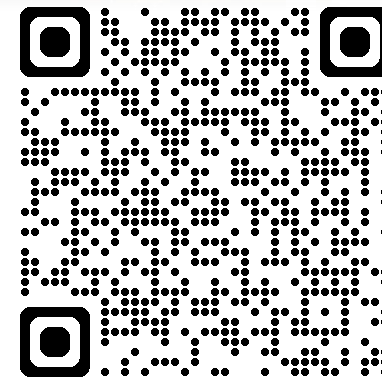
- Designed for ages 8-10 and 11-14
- Translated in 7 languages
- It consist of:
  - An introduction and a closing lesson
  - 8 interconnected themes
    - Lessons for the interactive whiteboard
    - Teacher guides, worksheets, answer keys
- Easily adapted to different curriculums



**27,000+**  
Teachers using  
Terra Mission



**322,968**  
Students  
participating





# Terra Mission MOOCs: Teaching Sustainability for Action

## Evidence

The MOOCs contribute to changing teachers' practices because:

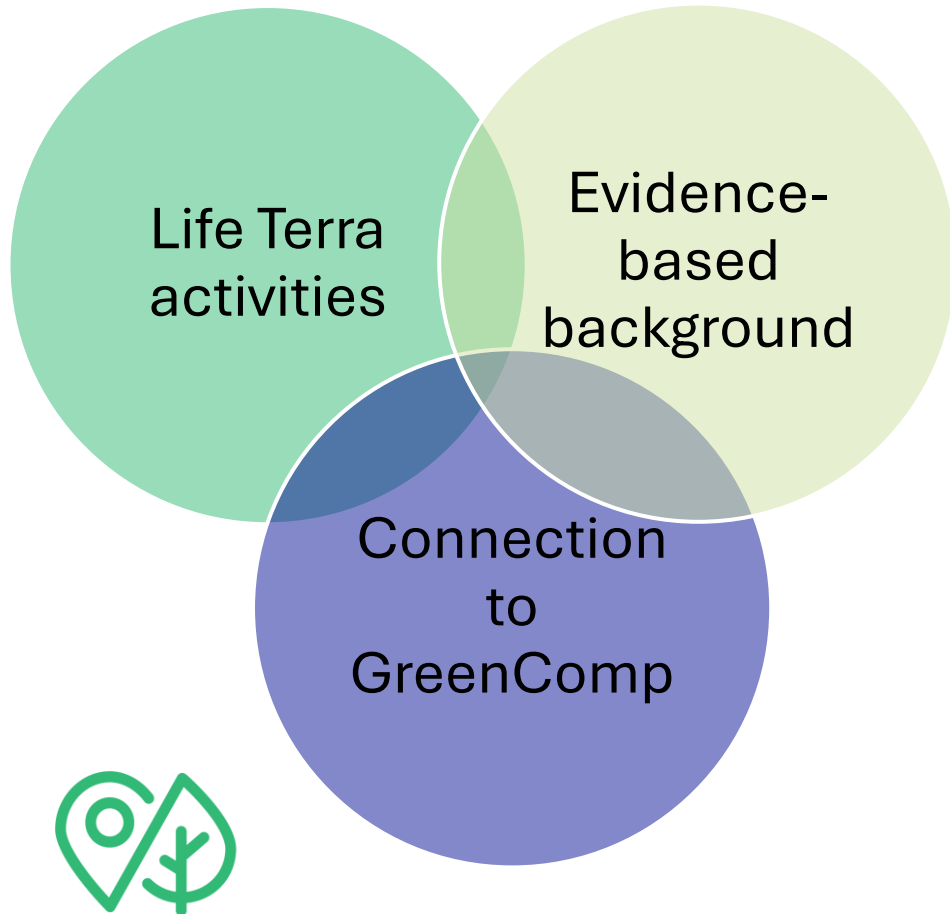
- Offer a community of practice;
- Collaborative;
- Actively engages teachers in the learning process;
- Content focussed.



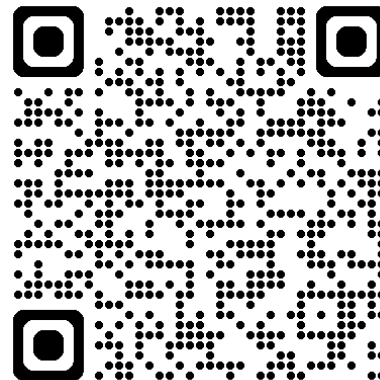
Terra Mission MOOC and more courses can be found in the [europeanschoolnetacademy.eu](https://europeanschoolnetacademy.eu)



# Background Document – Leveraging Life Terra resources to inspire climate action: through the lens of research and GreenComp



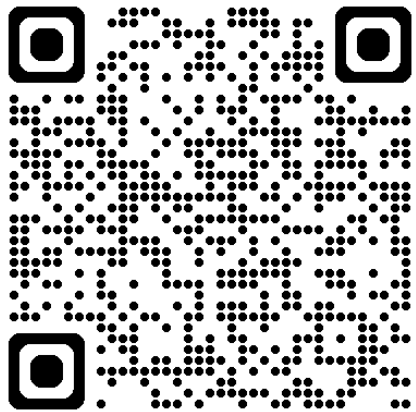
**Access the Full Report  
to Delve in the Research  
behind the Life Terra  
Recommendations for  
Education**



# Life Terra Recommendations

National and Regional Level

School and Educators' Level



**Guidance for Policy-Makers on Supporting Education for Sustainability**

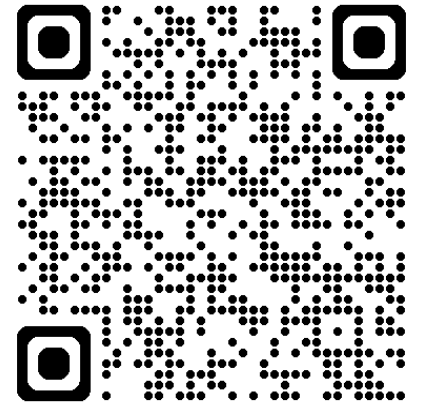
Build teacher skills in sustainability



Incorporate outdoor learning into curricula



Enhance access to educational resources



**Guiding Educators and School Leaders on Supporting the Integration of Sustainability Competences and the Implementation of Life Terra resources.**





<https://scientix.eu>

**Green and blue  
projects are  
leading the way  
for environmental  
sustainability  
in/and STEM  
education in  
Europe**

