Co-funded by the
Erasmus+ Programme
of the European Union

Project number:

2021-1-IE01-KA220-SCH-000027825

Designing an educational activity for your class: the CliC – PoliT templates & approach

Age: Grade 3-9 (9-15 years old)

Topics: Light pollution, Biodiversity, Urban species, Monitoring, Impact, Project-based learning, Inquiry-based methods, Interactive tools, Critical thinking, Environmental awareness, Collaborative problem-solving

Resources: Dr. Loukas Katikas (EA)

Authors: Dr. Seda Özdemir-Fritz, Jenny Brüggler, Dr. Lothar Kurtze (FTP-Europlanet)

Engaging in a project-based activity to understand and monitor the impact of light pollution on urban species, utilizing inquiry-based methods and interactive tools.

This project has been funded with support from the European Commission. This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.
Project No. 2021-1-IE01-KA220-SCH-000027825

Template Outline

- Title & Duration
- Target group(grade), Description & Learning objectives
- Ideas to support school & out of school activities
- Green Competences Linked
- Educational approach & Links to school curricula
- Equipment, materials & tools
- Tasks & Timeline

CliC – PoLiT Lesson Plan template

Module title (i.e. Light Pollution & Energy Efficiency or Light Pollution & Biodiversity)	
Topic title (i.e. Monitoring impact on urban species)	
Lesson Plan title *(i.e. Green parks hunters)*	
1- Duration	*i.e. 45 minutes or 2 school hours (45 + 45 minutes)*
2- Short Description of the Lesson	*Students will learn about…*
3- Learning Goals	*This activity will help students to: i, ii, iii, v, …..*
4- Green Competences Linked	*Linkages to the* ***Green Comp. Framework***
5- Target Group	*9 – 12 or 12 – 15 years old (3 – 9 grades)*
6- Educational Approach	*i.e. Inquiry – based, Project – based, Experiential learning etc.*
7- Link to School Curricula	*i.e. Science, Math, Environment, Geography*
8- Facility/ Equipment & Tools/ Materials	*i.e. Classroom, internet access, printables, presentation*
Main Tasks	

Module Title, Topic Title, Lesson Plan Title: Different topics per module covering all aspects of Light Pollution.

1-2-3) Simple to complex activities, experiments, inside and outside of school activities.
4-5) ** Competence-based activities related to the green & sustainability skills per age group.
6-7-8) Educational approaches to be used, STEAM activities, materials and equipment needed.

**GREEN COMP

GreenComp: The European sustainability competence framework by JRC

12 competences organised into the four areas below:

1- **Embodying sustainability values, including the competences**
   - valuing sustainability
   - supporting fairness
   - promoting nature

2- **Embracing complexity in sustainability, including the competences**
   - systems thinking
   - critical thinking
   - problem framing

3- **Envisioning sustainable futures, including the competences**
   - futures literacy
   - adaptability
   - exploratory thinking

4- **Acting for sustainability, including the competences**
   - political agency
   - collective action
   - individual initiative

MAIN TASKS

Educational approaches to be used, STEAM activities, materials and equipment needed

Module title (i.e. Light Pollution & Energy Efficiency or Light Pollution & Biodiversity)	
Topic title (i.e. Monitoring impact on urban species)	
Main Tasks	
10 minutes	*Task 1: Introduction to light pollution* *1.1 Start the lesson with the following video*
15 minutes	*Task 2: Understanding light pollution* *2.1 Provide your students with sticky-notes and ask them to provide answers*
10 minutes	*Task 3: Light pollution monitoring and mapping* *3.1 Using online tools to identify light pollution from space*
25 minutes	*Task 4: Discuss with the students* *4.1 Create a poster presenting the light pollution levels in…*

- Note to Educators: This report offers teachers a structured guide to designing engaging lessons on topics like Light Pollution. By integrating hands-on activities, green competences, and a variety of educational approaches, this framework aims to empower students across different grade levels to develop sustainability skills, fostering a deeper understanding and appreciation for environmental issues.