



# Climate change: Causes, impact and opportunities for intervention



(Κλιματική αλλαγή: Αιτία, επιπτώσεις και δυνατότητες παρέμβασης)

**Developed by :** The Institute of Educational Policy of Greece.

**Website :** <https://iep.edu.gr/images/IEP/skill-labs/2023.pdf>

## Description

This tool was created in the context of the "Teachers training through workshops", a Global Education in Europe (GENE) award-winning initiative, in the form of open curricula, which responds to society's demand for modern, democratic and inclusive schools. The educational programme includes a brief theoretical background section. At the end the students create an information leaflet about the greenhouse effect phenomenon and the individual and collective ways which may contribute to its reduction.

### Duration

Depending on  
the use

### Resources needed

The educators may download the document which provides guidelines and activity ideas and all the necessary material for the implementation of the workshops. From what has been suggested, the following tools could be used/may be needed:

- Computer with internet access, so that the relevant material, infographics can be accessed and projector.
- Stationery or any tool that can be helpful for the students to express their thoughts.
- Elements to be used during the game. (e.g. playcards).

### Age

Middle School:  
10 to 14 years  
old

### Relevance to CRISEPAC Objectives

Students explore/discuss the greenhouse effect, human activities that change the balance and lead to climate change, the impact of climate change, climate justice issues and processes and practices that reduce the problem.

### Management

The management that this tool requires, involves guiding students through an adaptable environmental approach. Teachers facilitate the exploration of the aforementioned issues like forest fires, urban flooding and climate change, by engaging students in discussions, research, and experiential learning. The tool encourages teachers to enhance critical reflection and collaboration, allowing students to propose solutions and adopt responsible practices. The management also prioritizes the adaptation of the content to suitable educational levels, ensuring that climate change impacts and sustainability are central to the learning process, fostering responsible citizenship.

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## Expected outcomes

- Identification of factors linked to global warming,
- Linking the extensive use of fossil fuels to global warming and climate change.
- Categorising countries according to their degree of responsibility for the creation and evolution of climate change.
- Exploring the impacts of climate change.
- Linking the lack of determination of some countries to take appropriate measures with the economic interests.

## Others

### Weaknesses

- Activities may not suit all learning levels
- Some content is too basic for advanced students
- Teachers need extra support to adapt materials effectively
- Balancing the suggested activities with the existing courses and curricula could be challenging

### Possible adaptations

As long as the tool covers the phenomena of floods and fires, maybe it should include a brief overview of all the relevant natural disasters (e.g. storms, earthquakes etc.)

### Strengths

This educational tool:

- Presents an important topic in an experiential - exploratory and age-appropriate way.
- Contains interesting and fun activities that students will actively engage in.
- Provides students opportunities for self-direction.
- Describes a framework of alternative forms of assessment, which is essential for the evaluation of such programmes.
- Is in line with the 17 Sustainable Development Goals and the Climate Action Goal.
- Contributes to the development of 21st century learning skills.
- Contributes to the development of appropriate attitudes to both short and long term climate change.
- Allows teachers to adapt its content and introduce their own elements based on the students' needs.
- Employs a modern teaching framework that allows teachers to experiment and develop their teaching approaches in their field.

### Climate change

Students explore/discuss the greenhouse effect, human activities that influence climate balance and lead to change, the impact of climate change, climate justice issues and processes, as well as practices that reduce the problem.

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## Methodologies

This tool provides the educators with some useful material that can be exploited within the framework of a classroom. The project suggests a series of activities that can help with keeping the students engaged and cultivating their knowledge and understanding concerning climate change. More specifically: the tool suggests dividing the classroom in groups and asking them to respond to a series of questions according to given texts, graphs or other forms of infographics. By doing so, the students will learn how to develop reasonable arguments while gaining environmental insight at the same time. The tool also recommends implementing a series of games, or engaging the students into creative writing: developing a story or creating a newsletter, given the relevant environmental context.

**Additional Resources: Links to supplementary materials are included in this tool's pdf file.**