

Didactic scenario

1. Title

"Forests send out a danger signal"

2. Keywords

Forest ecosystem, flora, fauna, sustainability, risks, protection

3. Basic information

STEAM : Science (Arts – Maths)

Typical interaction time with the educational scenario during teaching hours for in-school work:
2 teaching hours (90')

General description of the scenario:

Phases	Stage	Time
Visit to the forest	Warm up activity	25'
The forest ecosystem and sustainability	Implementation stage	30'
Reforestation: One step further	Evaluation stage	35'

Age group: 10 years old, 4th Grade in the Greek education system

Estimated level of difficulty:

Easy	Very Easy	Moderate	Challenging	Very Challenging
		X		

Teaching resources

Materials: Environmental Studies Student's Book, Workbook, Worksheets.

Additional activity: crepe paper green for trees, blue and brown for mountains, red for fire, cardboard, markers, scissors, glue, magazines, newspapers, books, forest themed fairy tales

School infrastructure : computer connected to the internet, video projector

Additional material from external sources/online tools:

- https://www.youtube.com/watch?v=50TR_M_jpeQ (Walk in the Forest)
- <https://www.youtube.com/watch?v=tFpSuptEYh4> (Forest fires – Guidelines)
- <https://www.youtube.com/watch?v=IVQCygd38I4> (Move/Take Action)
- <https://www.youtube.com/watch?v=XH9A7ix37ic> (Burning grass)
- <https://photodentro.edu.gr/v/item/ds/8521/3600> (What causes forests to be at risk?)

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4. Educational Problem

Students know enough about the benefits of forests in our lives, but they do not know much about the causes and consequences of their destruction, nor about the ways they can adopt to protect them. The main goal is to make them understand the necessity of proper sustainable management through raising awareness and shaping correct behaviors towards the environment. The students' recent visit to the EEC Philippiadas in a program about the forest and the presentation of photos, via PowerPoint and video of damaged or burned landscapes are an impetus for the development of dialogue and free expression (brainstorming). The students will express their experiences of what they saw, heard and felt from their recent visit to the forest of Lake Zirou.

5. learning objectives

1. To evaluate the utility of the forest.
2. To describe human interventions in forests, fire protection measures to prevent and deal with dangerous related situations.
3. To create a board game cooperatively.
4. To get to know what reforestation is and the ways in which it is done with the simultaneous cultivation of voluntary disposition and action.
5. Plant trees.

6. Phases of the Scenario

Phase 1

Title: Visit to the forest

Indoor	Outdoor	Mixed
		X

Phase duration in minutes: 25'

Detailed description of the scenario phase:

The course will be held in the computer lab. The educational video downloaded by the teacher is shown https://www.youtube.com/watch?v=50TR_M_jpeQ

They discuss in plenary concepts that they learned during the visit to the KPE Zirou-Filippiadas the previous day, such as "forest ecosystem", "sustainability", "biodiversity", "food chain". Then, by clicking on the link <https://www.youtube.com/watch?v=IVQCygd38I4>, the students learn about the dangers that threaten the forest and the actions they will take in the event of a fire. Finally, they prepare part of the material that will be needed for the construction of the next phase.

Activity sheets: Paper cutting plants and animals of the forest

Phase 2

Title: The forest ecosystem and sustainability

Indoor	Outdoor	Mixed
		X
Phase duration in minutes: 30'		
Detailed description of the scenario phase: Following the instructions in the worksheet, the children proceed to create a board game, build a board and question cards. At the same time, they watch two humorous videos and learn what they should avoid to protect the forest http://www.youtube.com/watch?v=XH9A7ix37ic (burning grass) and http://www.youtube.com/watch?v=JSgmjHnRdW&feature=relmfu (cigarette). When the construction is complete, the children start playing the board game.		
Activity Sheets: Instructions for creating a board game		
Phase 3		
Title: Reforestation: One step further		
Indoor	Outdoor	Mixed
		X
Phase duration in minutes: 35'		
Detailed description of the scenario phase: By clicking on the link https://www.youtube.com/watch?v=QdDv1Kt2C6s , students learn step by step about reforestation by having a constructive dialogue and cultivating the voluntary attitude and action for tree planting in the yard of their own school or in other points of their area that where necessary. Divided into groups, they are asked to study the tree planting instructions, go out to the school yard and proceed with tree planting and then answer the corresponding questions.		
Activity Sheets: Selected exercises from the Environmental Studies Workbook. Tree planting instructions and questions		

7 Evaluation Methodology

Initial evaluation

It takes place through guided discovery and question-and-answer discussion.

Formative evaluation

It takes place continuously throughout all phases, where questions are asked and the students' learning progress is checked.

Final evaluation

It is done through the activities, worksheets and assignments in the Environmental Studies Student's Book and Workbook.

8. Additional Resources for the teacher

Folder: Forests send out a danger signal _ Additional resources for the teacher