

A colorful cartoon illustration of a school fair. In the background, a boy is inside a treehouse, another boy is climbing a tree, and a girl is holding a sign that says 'ask epa'. There are several balloons, one of which says 'air'. A hot air balloon is in the sky. In the foreground, a boy is running with a sign that says 'YOU and Your environment'. A girl is holding a sign that says 'Science room'. A boy is holding a sign that says 'Teachers'. There are also signs for 'Students' and 'Members'.

EXPERIMENTAL ALL-DAY PRIMARY SCHOOL OF PORTARIA

CLASS F

Within the project "Ecological houses" the students and Aliori Violeta and Kondova Stavroula undertaken to gather, from various sources, information and other stuff about the terms: Ecology - Sustainability – Greenhouse effect.

Then review, filter and adjusted, all the information collected, at this level to be understood by school children.

With the help of his teacher Makris Nicholas, adapted to these information respective pictures and created a presentation (Power point).

These work presented to the whole class.

**EXPERIMENTAL ALL-DAY
PRIMARY SCHOOL OF
PORTARIA**

CLASS F'

CREATION - PRESENTATION:

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A conceptual illustration featuring a tree with a brown trunk and thin branches. The canopy of the tree is a large, stylized globe of the Earth, showing continents in light beige and oceans in a vibrant cyan. The background is a deep blue space filled with numerous white stars of varying sizes. Three red text labels are overlaid on the image: 'Ecology' in the upper right, 'Sustainability or Viability' on the left, and 'Greenhouse effect' at the bottom right.

Ecology

**Sustainability
or Viability**

**Greenhouse
effect**

Ecology

The word ecology comes from the Greek words oikos and logos and literally means “The study of the physical house” .

Ecology is science and especially is a branch of physical sciences.



Physical sciences = Mathematics
Physics
Chemistry

Ecology

Ecology deals primarily with populations of living organisms and examines the relationships developed among **living organisms** and between the **environment** in which organisms are living.

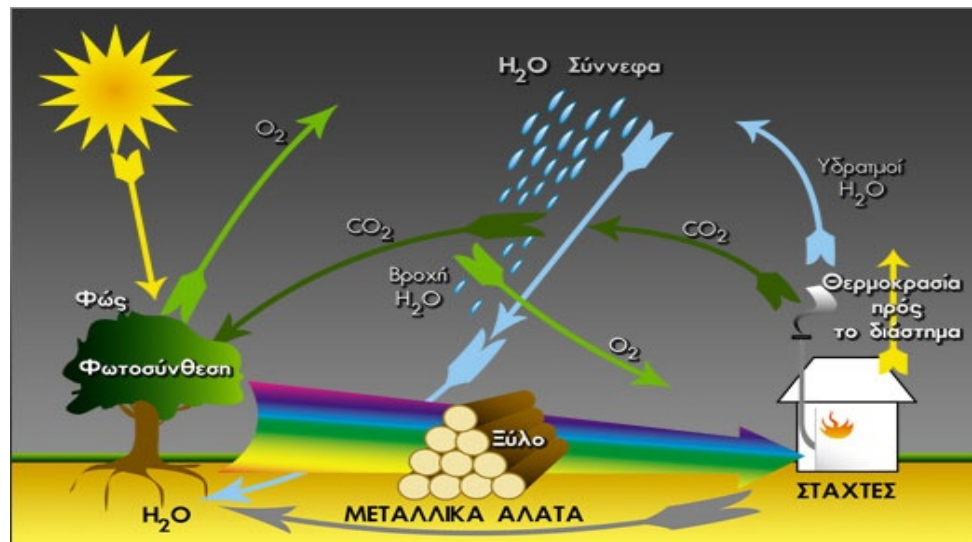
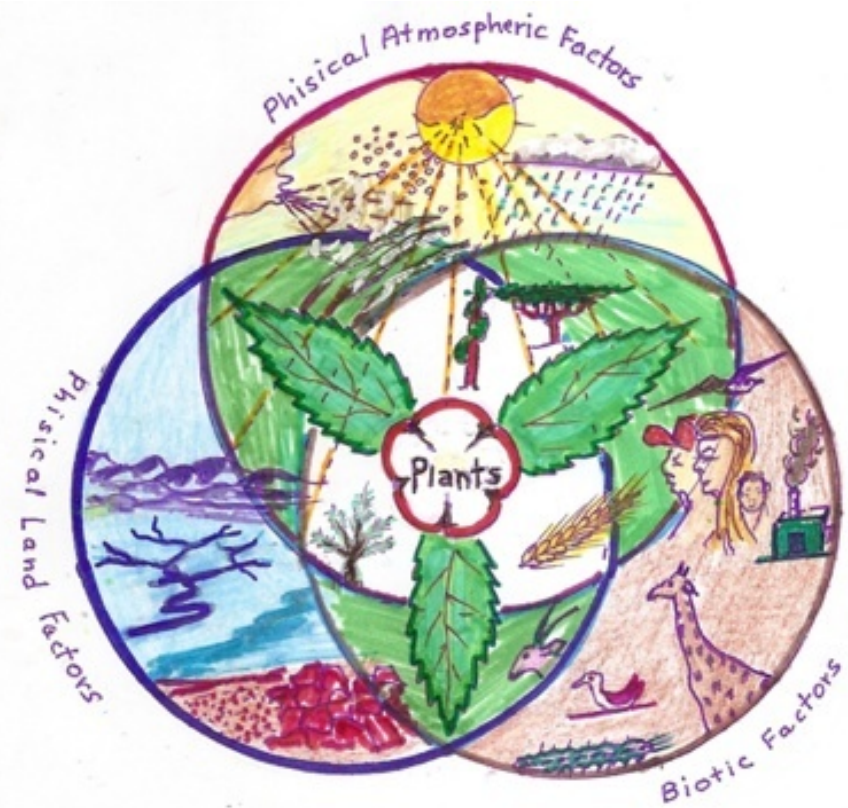


Ecology

The environment of an organism consists of:

1. The remaining living organisms called biotic factors.
2. Non-living (abiotic factors) such as climate, water, light etc.

Biotic and abiotic factors form the ecosystem.



Question: Does the pot represent or doesn't an ecosystem?

Sustainability or Viability

The etymology of the word sustainability give us a sense of meaning:

In Greeks the similar word ΑΕΙΦΟΡΙΑ means:
ΑΕΙ = always ΦΟΡΙΑ = bring

In English means:

Sustain = To maintain, or keep it in existence.

Ability = A skill or competence.



Sustainability is the use of natural resources and energy with the condition to ensure the future quality and balance of the planet. Thus the available resources can always produce results.

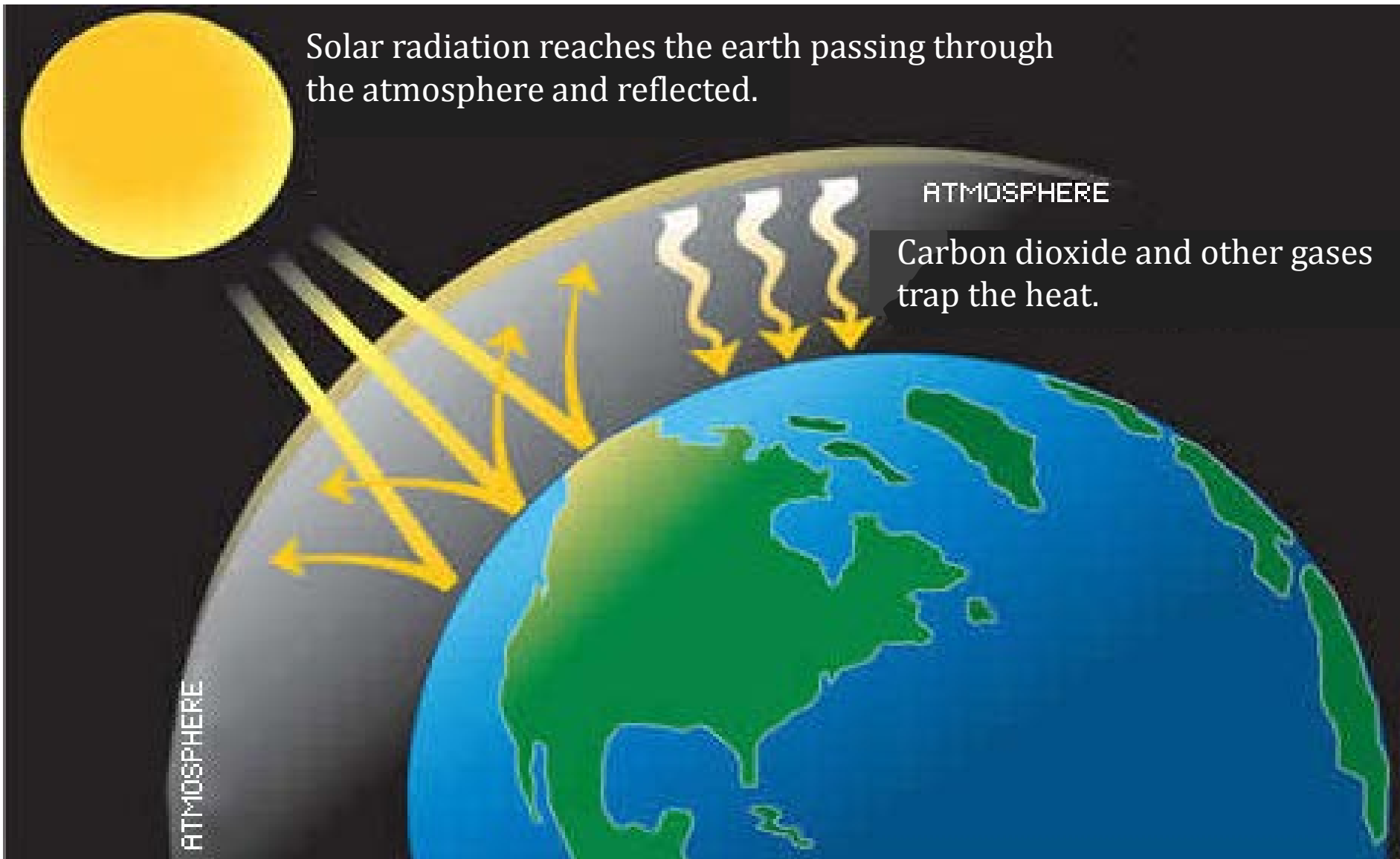
Sustainability or Viability

A key element of sustainability is the balance between production of goods and raw material (spent to achieve the production). The aim of sustainable processes is to achieve more production with less cost of raw materials, for that reason sustainability is mentioned together with recycling, renewable energy sources and bioclimatic design.



Otherwise, the earth's ecosystem can no longer support human life in future.

Greenhouse effect



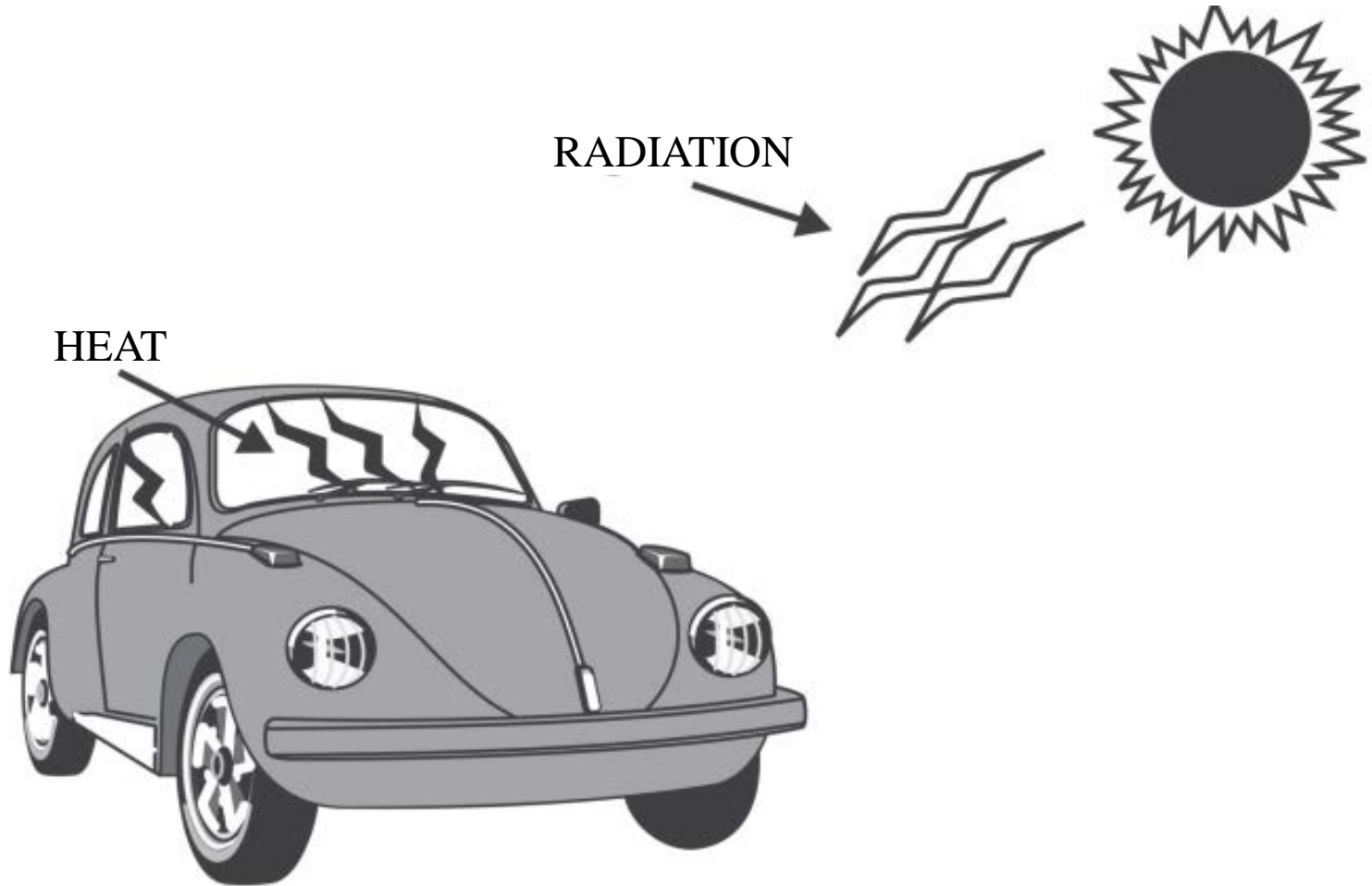
Greenhouse effect



As **Greenhouse effect** described the phenomenon observed in heating greenhouses. In this phenomenon, the glass roof allows the light rays to enter the indoor space, partly absorbed and partly reflected. The roof, however, is opaque to reflected radiation, which is "trapped" in the field and ultimately converted into heat.

Greenhouse effect

Example of Greenhouse effect.

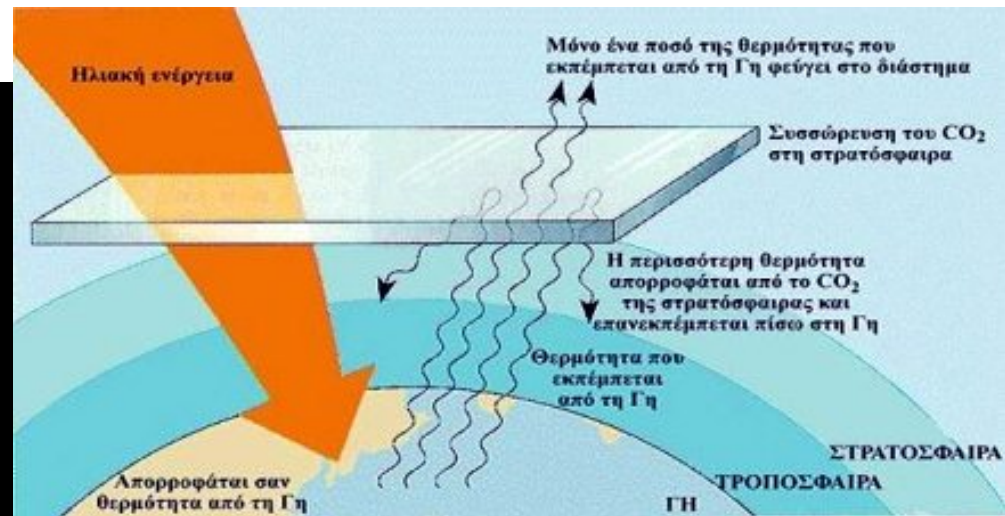
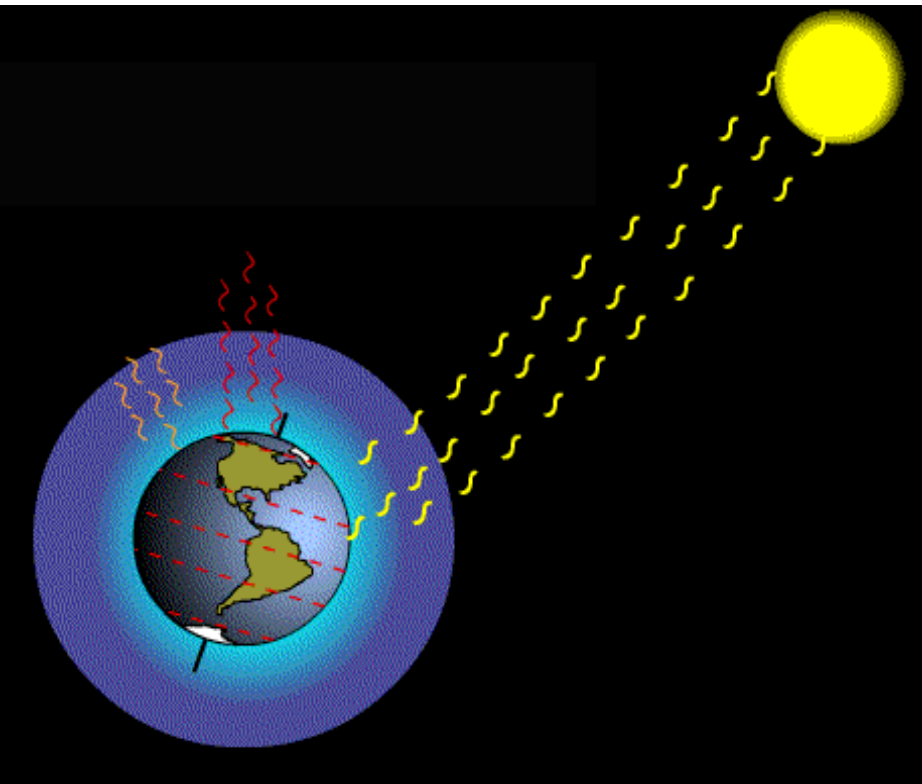


Radiation passes through the glass and hits the inside of the car.
Converted into heat and trapped inside.

Greenhouse effect

The same phenomenon observed in nature where the role of the roof of the greenhouse plays the atmosphere. This phenomenon enables the heating of the earth and thus exists in this life.

If this does not happen, the Earth may have been too cold for us. It would be nearly 33°C colder than it is now: about -18°C .



Greenhouse effect



Caution

Continued growth gases such as carbon dioxide increases the intensity of the phenomenon and so we increase the temperature of the planet!!!!!!!!



Thank you