

2nd Laboratory Center for Science Education in Heraklion of Crete

Our Actions During Pandemic time

Eirini Dermitzaki

From September till today....

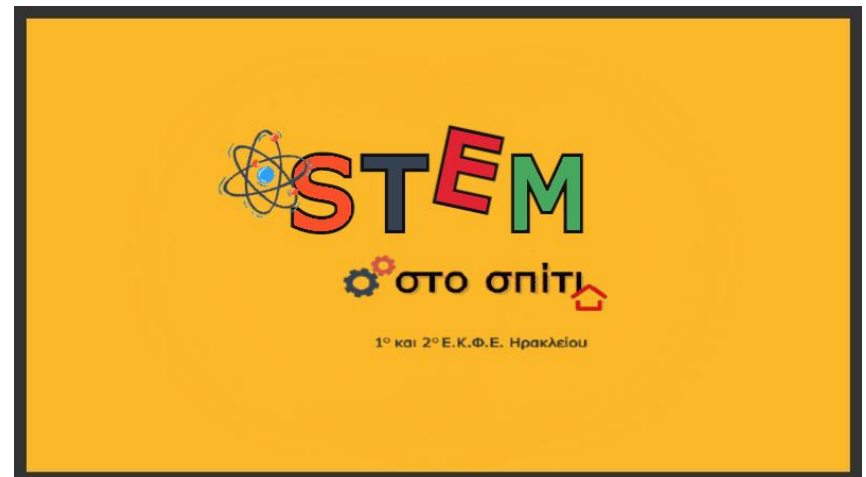
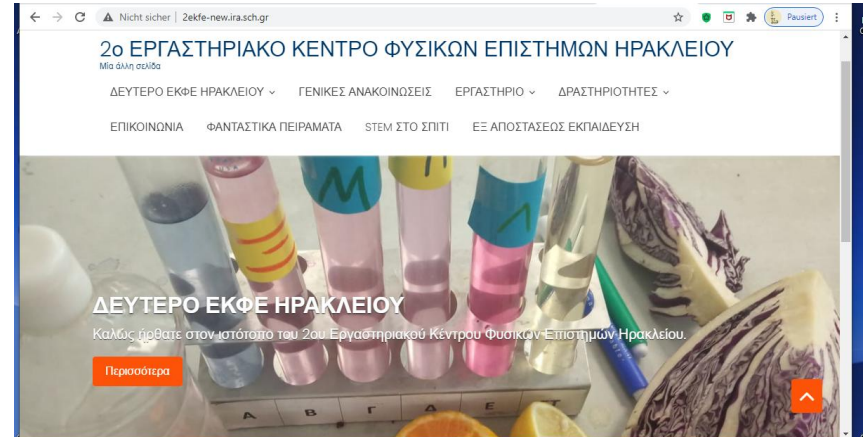
Co –Workers:

Papamatheaki – Biologist

R. Mataliotaki –Teacher

G. Melidoneas- Chemist

- Creation of a new, more attractive **internet site**
- In October we tried **8 meetings with science teachers-** in aim to show school experiments. The participation was limited up to 5 people due to the pandemic.
- We created and posted on youtube **8 videos** to support asynchronous distance learning
- We took part in two conferences
- In collaboration with the 1st LCSE, we organized the action : **STEM at home**



Online experiential workshop for climate change

3 October 2020

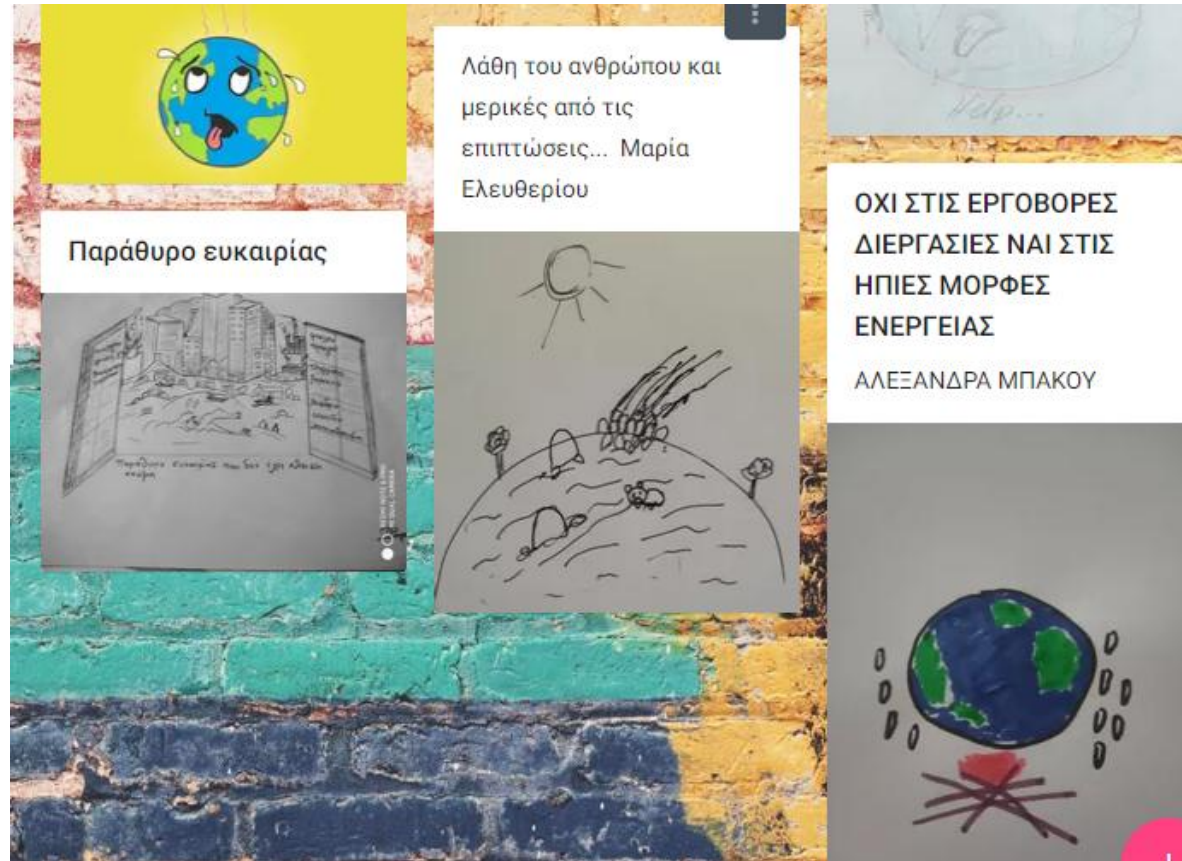
In collaboration with:
A. Ginoudi, G. Melidoneas
and I.Papamatheaki

Methodology

During the workshop the participants worked **in groups**

1st We posed a question:
What are the reasons and the consequences of climate change?

2nd The participants had to answer by drawing a **sketch-model** and upload it in a padlet.



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3rd We posted two questions using **menti – meter**: **Which are the sources of your information about climate change?**

4th We showed 5 educational **video-experiments** which describe the effect of climate change in ice melting, in Oceanic Currents and in oceanic life. These videos are our production.

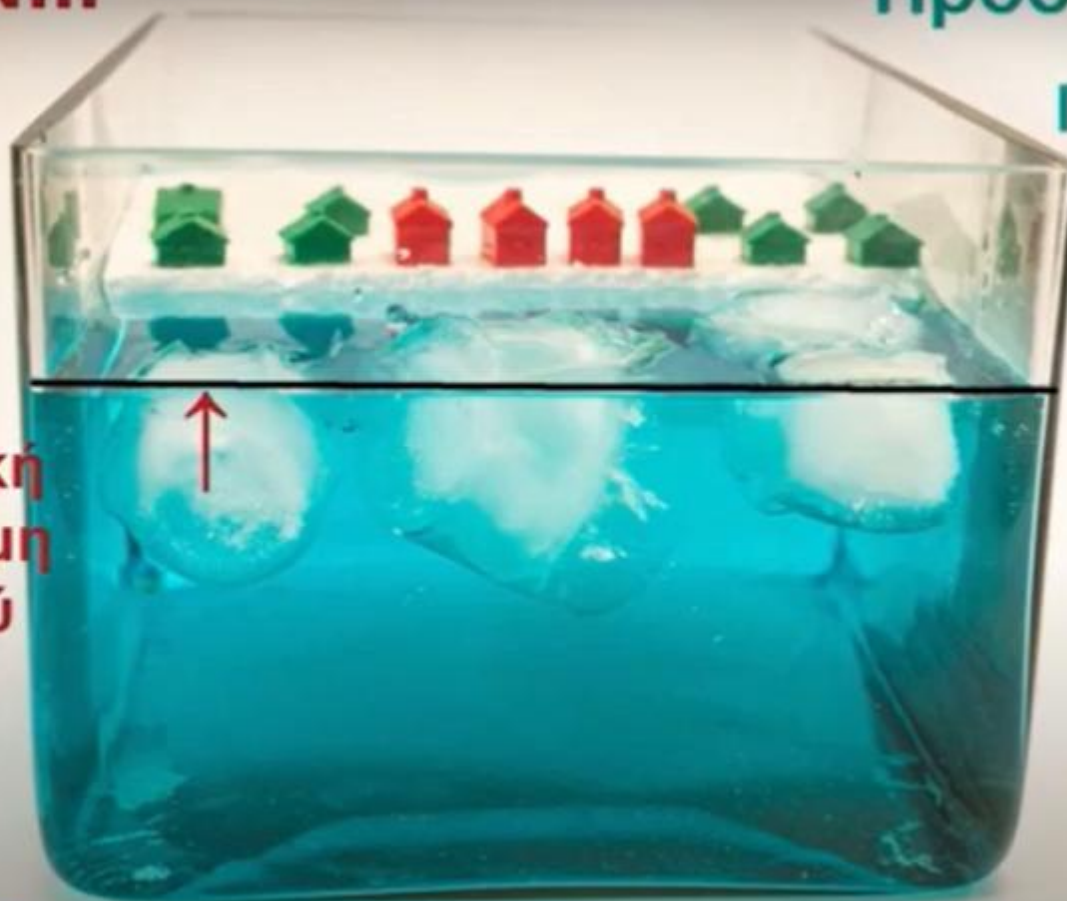


The role of CO₂ in green house effect

ΠΡΙΝ...

Προσομοίωση

Παγόβουνα
σε νερό
κοντά
σε αστική
περιοχή



Αρχική
στάθμη
νερού



0:09 / 0:53



Oceanic ice melting



**Red hot water
is going up**

**Blue cold water
is going down**



Στρώμα
γλυκού νερού
δημιουργήθηκε
πάνω
από το
αλατόνερο



Το νερό
από
τα παγάκια
αναμείχθηκε
με το νερό
της βρύσης

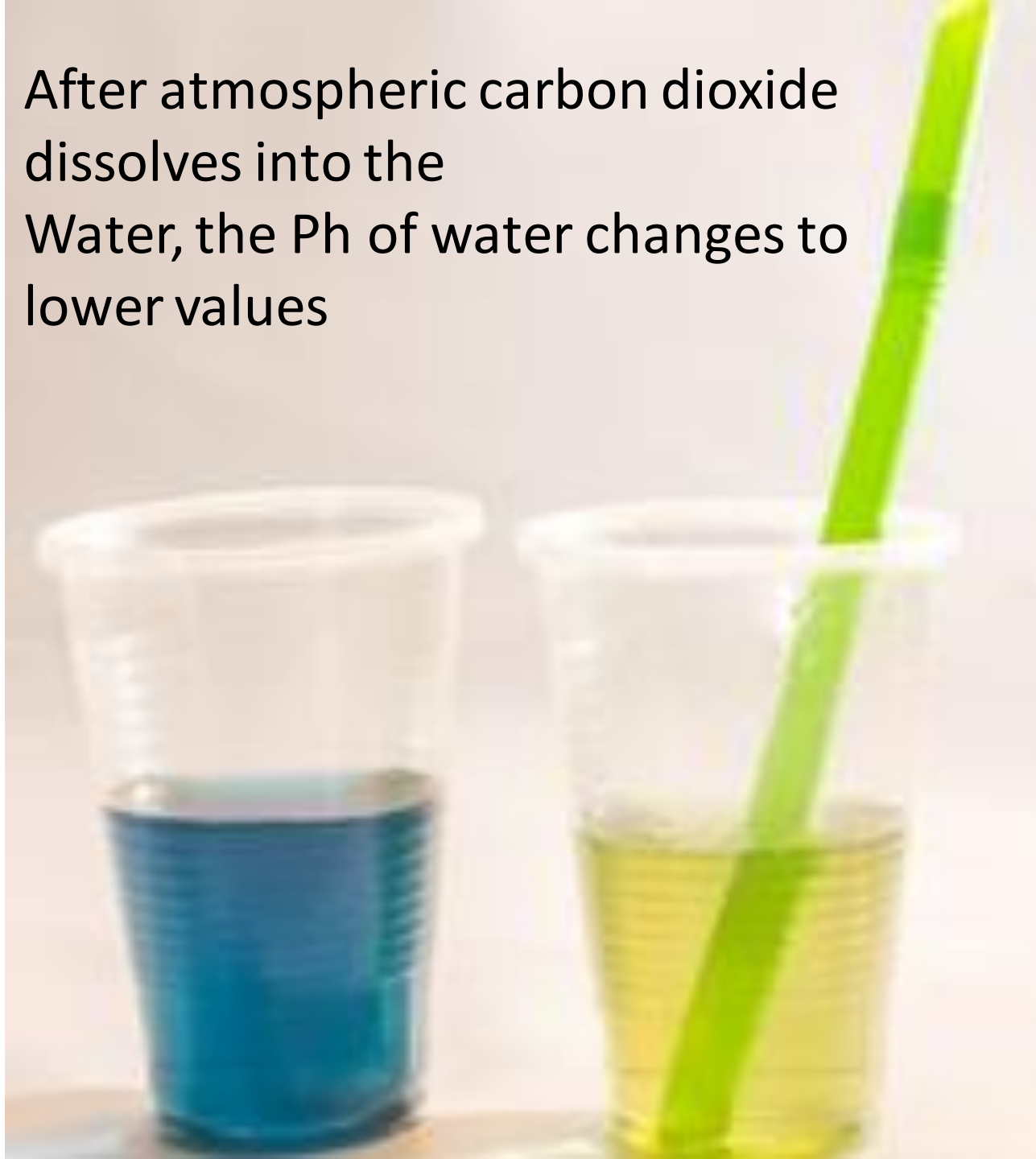
0:27 / 0:40

Blue ice is melting above:

salt water

fresh water

After atmospheric carbon dioxide dissolves into the Water, the Ph of water changes to lower values



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Finally each group worked together considering the new knowledge they acquired from the video and the discussion. They answered the initial question again. They created a new sketch-model and uploaded it in the padlet.

The Padlet board, titled "Κλιματική αλλαγή" (Climate Change), features several hand-drawn diagrams and text cards. The cards include:

- Καραγιάννη Νάντια** Χαλκιαδάκης Κωστής: A diagram showing a cycle between "Αναπόσπαστο Σύστημα" and "Αξιοποιήσιμη Ενέργεια".
- Μαρία Κοκολακη και Μαρία Ελευθερίου**: A diagram with a sun and a globe, with handwritten notes in Greek.
- Ρήγα Ματαλλιωτακη**: Text describing the causes of climate change: "Αιτια- Επιπτώσεις Κλιματικής αλλαγής. Με το λιώσιμο των πάγων και με δεδομένη την αλατότητα του νερού της θάλασσας το φαινόμενο των θαλάσσιων ρευμάτων γίνεται περισσότερο πολύπλοκο με άγνωστες τις συνέπειες για το κλίμα".
- Plan B** Φασουλακη Μ: A card titled "Παγκόσμια πρόκληση ΣΧΕΔΙΟ Β για τη διάσωση του πλανήτη".
- Η γη εκπνεπει S.O.S.** Χαραλαμπίδου Πηνελόπη: A card with a globe and the text "Η γη εκπνεπει S.O.S. Χαραλαμπίδου Πηνελόπη".

Other elements on the board include a drawing of a sun and buildings, a diagram of a water cycle, and a card titled "Μεταλλωτική Ρένα".

Thank you!