



Encontro Regional de Albufeira 2018

Partilha de práticas sobre
o trabalho colaborativo
entre escolas europeias

Educadora de Infância.

35 anos de serviço, e 33 em Aljustrel.

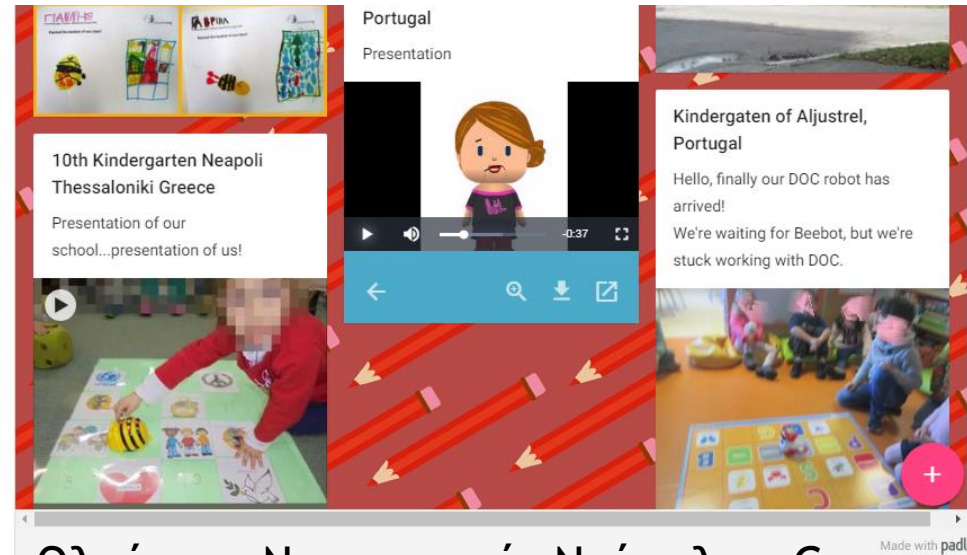
Inscrita no eTwinning desde 2005 e a trabalhar em projetos sem interrupção desde 2007.

Obteve vários selos nacionais e europeus bem como dois prémios nacionais e um europeu.

Seasons' experiments through STEM



Apresentação dos países, das escolas e dos alunos



Efi Baki - THESSALONIKI 10ο Ολοήμερο Νηπιαγωγείο Νεάπολης Greece
ΑΘΗΝΑ ΖΗΣΟΠΟΥΛΟΥ- Θεσσαλονίκη 4ο ΟΛΟΗΜΕΡΟ ΝΗΠΙΑΓΩΓΕΙΟ ΠΥΛΑΙΑΣ Greece

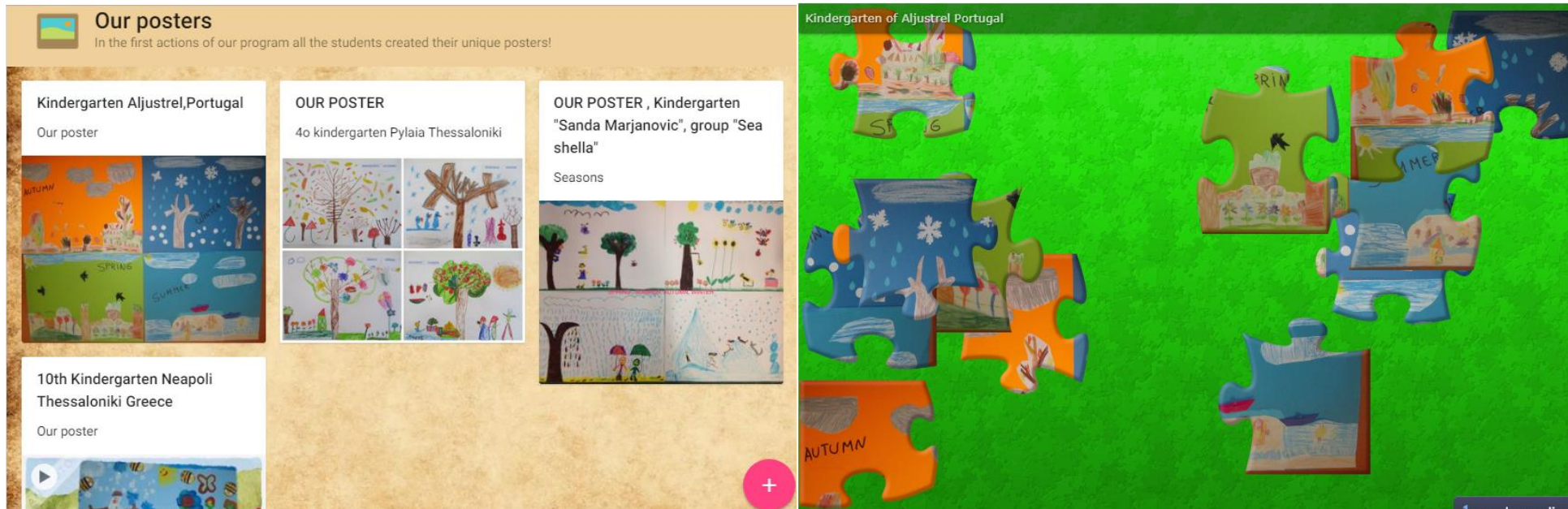


Natasa Vrapcevic- Subotica PU: "Nasa radost" Serbia



Guilhermina Brotas - Aljustrel Agrupamento de Escolas de Aljustrel Portugal

Elaboração de posters sobre as estações do ano, transformando-os em puzzles para todos jogarem online (Jigsaw planet)



Foi apresentada a beebot e aprenderam a codificar e programá-la

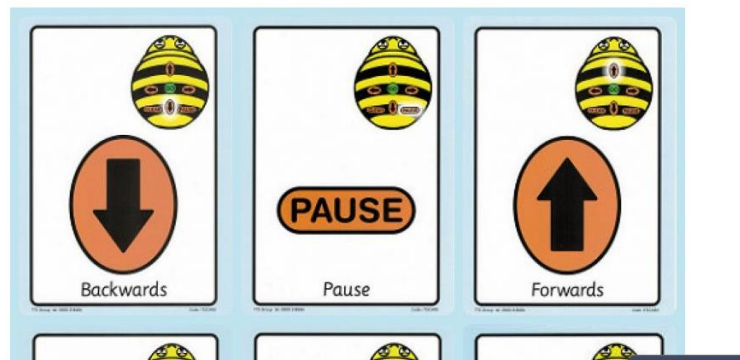


First approaches of exploration and codification of the robot

[exit page](#)

Kindergarten of Aljustrel - Portugal

Learning to code the bee bot



Planificamos de forma colaborativa as atividades das várias estações do ano, trabalhadas (Google docs)

Planning our actions

Winter January-February

- 1. Product with winter actions of each kindergarten
- 2. Collaborative drawing for winter
- 3. Experiments with the ice (ice hooking, painting with colored ice cubes or snow...)
- 4. Measurements of the **temperature** of one week- Find the lowest and the highest temperature. Collaborative Action with BeeBot or anything else programming software or even if with students' body or with craft: Students drive the robot to the lowest and the highest temperature of each country
- 5. **Wind intensity** : Each school will upload the sound of wind's intensity (breeze, strong wind, storm, hurricane) in voicethread and write the word of intensity. The sounds will come from students' bodies, musical instruments or everything else you can imagine with your students. These sounds will drive robot to the to the appropriate image of the wind intensity.
- 6. Crystals : experiments with salt or borax
- 7. Winter math activities : shapes (snowman)

Planning our summer actions

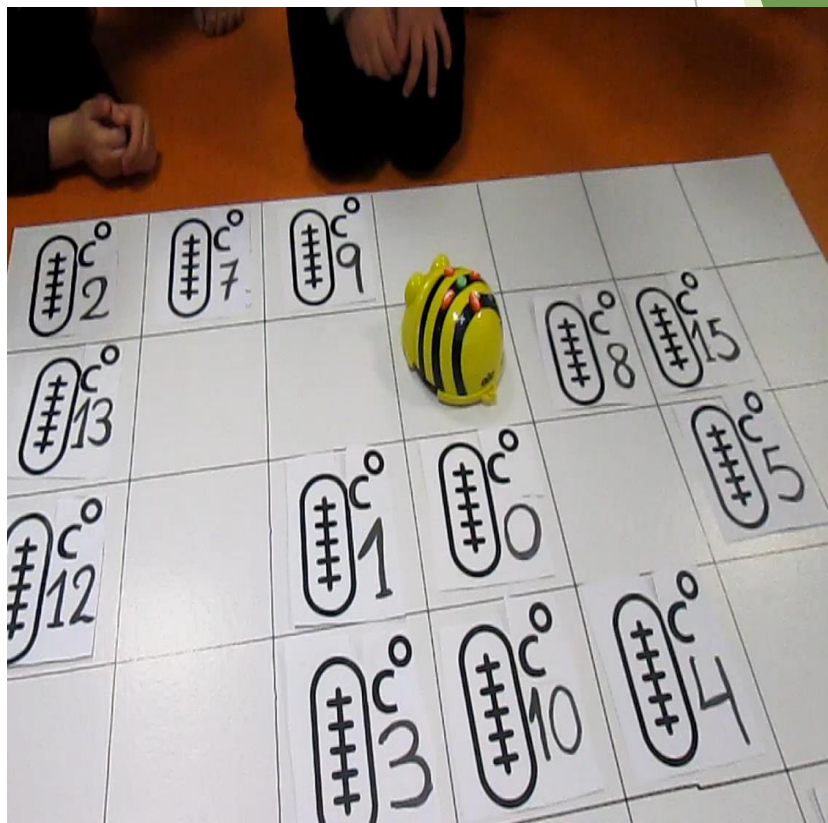
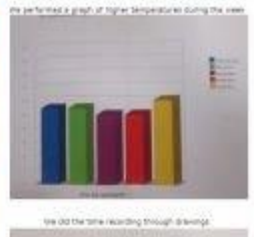
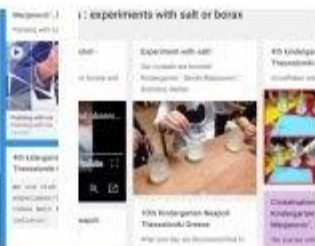
Summer actions

- June
- 1. **Sun**
Students will make experiments about sun, like evaporation, rainbow's creation, sun-dried fruits, linear light movement, light composition. All the experiments will be uploaded in an image to thinglink.com
- 2. **Solar radiation**
Students will learn about the positive and negative effects of solar radiation and then they will create an online map with pictures about solar's radiation. These pictures will be part of our activity with Beebot.
- 3. **Evaluation**
Teachers, students and parents will evaluate the actions of the program.
- 4. **Dissemination**
Teachers will disseminate the actions of the program to parents and local community.

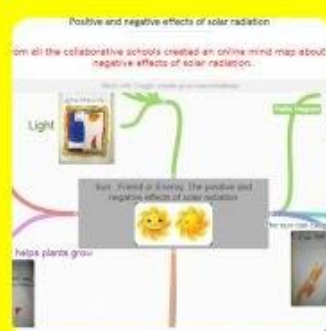
Planning our spring actions

Spring's actions

- March-April-May :
- 1. **Birds**
Nest or bird feeding. What materials are needed for construction? We're programming BeeBot to find all the materials which are needed for bird's nest or bird's feeding construction. Each school prepare enigmas/riddles to read by the students and then "drive" the robot to the right material in the floor
- 2. **Plants-Flowers**
Bloom trees, change in nature, observation, how to grow plants, create a small greenhouse, experiment with light, shade and water, their effect on plants.
- Collaborative action: Plant growth stages - Creating an online collaborative timeframe of plant growth. The robot moves to the







Students' opinion

All the students will tell our opinion about program's activities.

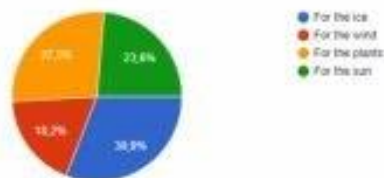
2. Which experiments did you like most? *



- ☐ For the ice
- ☐ For the wind
- ☐ For the plants

Which experiments did you like most?

Chart (pie):



Do you think that Beebot has helped us in our seasons' study?

Chart (pie):



One Results

1. Do you like the program? *

Chart (pie):



Which experiments did you like most?

Chart (pie):

NOVO - Selo Europeu de Qualidade

A nossa escola foi distinguida com o Selo Europeu de Qualidade de "experiments through STEM". Isto significa que o trabalho obtiveram um reconhecimento ao mais alto nível europeu.



Muito obrigado!!!

Estou disponível para as
questões que queiram colocar!

Agrupamento de Escolas de Aljustrel

Guilhermina Rosa Brotas