A school where good ideas become reality
Key Action 2 - School Exchange Partnerships
United Kingdom- Croatia- Malta- Sweden – Turkey - Italy

Erasmus+
About the project

• This project is aimed at getting children to understand that unless we become an more sustainable society, we will endanger our futures. As such the project focuses on different elements of sustainability.

• To make this real for children we will have the children make models, so the science they learn gives them something practical to do. To begin the project the need for sustainability is discussed with the impact of climate change. As such we can examine the 'what if' scenarios.

• A rise in sea level - A increase in the land impacted by desert - An increase in extreme weather events - The current mass extinction taking place within the world - The impact of human activity such as plastic production.

• Once this has been recognized the project moved the children into active problem solvers.
General info on the project

• ERASMUS+ program, Key Action 229
• Program: Strategic partnerships/Exchange of good practice examples
• Coordinator: Rayleigh Primary School, Rayleigh UK
• Partners:
  1. Sivas Bilim ve Sanat Merkezi, Sivas, Turkey
  2. Nya Rydsskolan, Linköping, Sweden
  3. Theresa Nuzzo School, Marsa, Malta
  4. Istituto Bilingue Don Morinello, Licata, Italy
  5. OŠ „Đuro Pilar” Slavonski Brod, Croatia
• Budget: 34.680,00 € (9220.00 €)
• Timeline: Oct. 2019. – Oct 2022
Objectives

• Improved Teacher Knowledge. - Supporting educators
• Improved Child Knowledge - Supporting individuals in acquiring basic skills and competency.
• Models Created By Children - New technologies
• Children as Advocates for Sustainable Living - Energy and Resources, Environment and Climate Change
• WEB content- Innovative Practices in the digital age. ICT and digital technologies
• Added value; bio economy and bioethics are discussed among teachers and pupils
How do pupils become advocates of change?

01. Experts educate teachers (on mobility events)

02. Teachers cooperatively design classes

03. Teachers educate pupils during classes

04. Pupils design models on their own

05. Pupils teach; pupils, families, the community...
Themes – terms (3 month) for content

I. Energy in recycling
II. Wind energy
III. Pollution & Climate change
IV. Energy of the Sun
V. Energy of habitats
VI. Energy of Water
Teachers education

**Wind**
Science and Technology from the Wind

**Habitats**
This is a focus on habitats including the human habitat.

**Water**
This is a focus on all that can be achieved through utilising water.

**Sun**
This is a focus on all that can be achieved through utilising the sun.

**Recycling**
This is a focus on recycling and waste management.
So, what has been done?
STAGE 1
Pupils discover the problems our planet is facing: climate change, pollution, our energy use, etc. This allows the children to learn about those topics and then create for others. Knowing and understanding the reason why this work is important.
CLIMATE CHANGE - POLLUTION

TERM 1 - CLIMATE CHANGE
• Climate change pupils activities
• Climate change, plants
• Carbon cycle in our nature
• Climate change Tool kit
• Sustainability
• The Green deal
• Climate change EC
• 17 goals UN
Example

https://twinspace.etwinning.net/96458/pages/page/1757632
STAGE 2
Science and Technology from the Sun
This is a focus on all that can be achieved through utilising the sun.
TERM 2 - THE SUN

- Energy of the sun pupils research
- Solar car activity
- Energy of the Sun in Croatia
- The Sun workshop
Example

https://www.youtube.com/watch?v=YJarMNiZGs8&t=5s
STAGE 3

Science and Technology from the Wind. This is a focus on all that can be achieved through utilising the wind.
TERM 3 - WIND

• Balloon cars
• Windmill activity
• Airship activity
Example

https://www.youtube.com/watch?v=iVc1Zh_mEc4&t=48s
STAGE 4 – Science and Technology from Water
This is a focus on all that can be achieved through utilising water.
TERM 4 - WATER

- The energy of the water; Hydropower plants in Croatia
- Windmill pupils activity
- Water clock pupil activity (4th grade)
- Water clock pupil activity (8th grade)
- Water fountain (4th grade)
- Wastewater Treatment Plant workshop
- Water energy experiments
- Sand water filter
- Teachers water fountain workshop C4 mobility
Example

- https://twinspace.etwinning.net/96458/pages/page/2031032
STAGE 5
Science and Technology in Habitats.
This is a focus on habitats including the human habitat...
Example

https://youtu.be/LdbPFQjXsGM
TERM 5 - HABITATS
• Sustainable farm
• Geothermal energy
• World water day 2022
• Bird feeders - recycled and sustainable
STAGE 6
Science and Technology in Recycling. This is a focus on recycling and waste management.
TERM 6 - RECYCLING

• Recycle for Science - Newton's cradle
• Theatre show on recycling
• Plastic recycling - peace flag (4.c grade)
• Recycled gift bags (4.c grade)
Example

https://twinspace.etwinning.net/96458/pages/page/2265454
STEM for life...

Empowers teachers on STEM content

Educates pupils on sustainable development

Makes children advocates of change
But we mustn't forget...

Schools are sometimes considered to be a „Panacea” for all problems in our society. They are not. Nevertheless, they can be powerful and effective partners for creating a sustainable and brighter future for us all.

Panacea : /ˈpænəˌsiːə/ noun
a solution or remedy for all difficulties or diseases.

Nikičić, 2022.
THANK YOU!

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