



Erasmus+

LESSON PLAN

Who is Afraid of Mathematics?



Category: MATHS in NATURE and GEOGRAPHY

Title of the activity: GEOGRAPHY and MATHS through six European countries

Year Groups: Grade 4 (9 - 10 years old) - Grade 5 (10-11 years old) Teacher

Teachers: Lisa Renzoni – Maria Elena Sinopoli

Learning Objectives:

- to find and analyze the mathematical elements in Geography and Science
- to be able to register and compare data, such as weather and temperature, distance among cities on the map, height and size of natural and anthropic components
- to be able to collaborate in group-work in order to achieve the same goal

Success Criteria:

- task-based activities
- CLIL approach
- problem solving strategies
- to apply mathematical concepts in real situations
- to let children use their creativity in analyzing information and problem-solving

Resources:

- pictures, paper sheets, pencils, crayons, pc, interactive whiteboard, Google Earth app

Differentiation:

- Pupils can participate to the different tasks by giving their personal contribution according to their own knowledge and skills.

Introduction:

In class students discuss and collect ideas and info on what they know about the six partner countries: geographic position, language, capital city, flags, numerical data, etc

Lesson Description (including context):

- **Grade 4**

Each child receives the task of analyzing the geographic aspects of one of the six countries through some activities.

Activity no.1

Each student registers the temperature of the city assigned to him/her by the teacher (San Mauro Torinese, Giannitsa, Boras, Ogre, Bialystok and Eger), for a week during the months of February, March and April. Pupils calculate the average temperature and draw bar graphs to compare the temperature of our city and those of the other five European cities.

Activity no. 2

Every student searches for numerical information about the country assigned to him/her and insert those data in a table where Italy and a second country are compared from a natural and geographic point of view.

The registered data refer to country area, inhabitants, the highest mountain, the longest river, the largest lake, average temperature, geographic coordinates and so on.

Activity no. 3

On online maps, every student finds his/her journey from San Mauro T.se to the European city they have been analysing. They also calculate the average travel time by car, considering the minimum speed in suburban roads (70Km/h) and the maximum speed in motorways (130Km/h) in Europe.

- **Grade 5**

Pupils investigate about geographical data of the six partner towns in the project.

They work together using Google Earth and official town websites to collect info about the number of inhabitants, type of territory and population density.

They also reflect on the Coats of Arms of the 6 towns to find relations about the pictures and the geographical data.

Main Lesson:

This unit is focused on activities that allow children to discover how to show compared data, drawing graphs and how to calculate average numbers. Moreover, pupils increase the knowledge of their country and other European countries through the development of research skills.

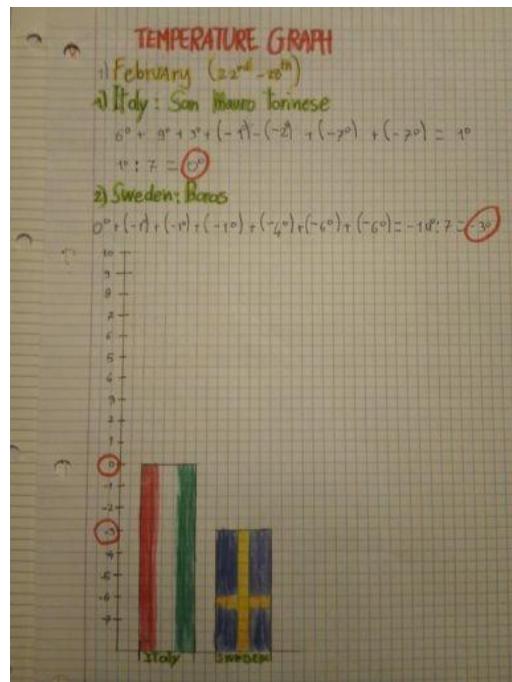
Plenary:

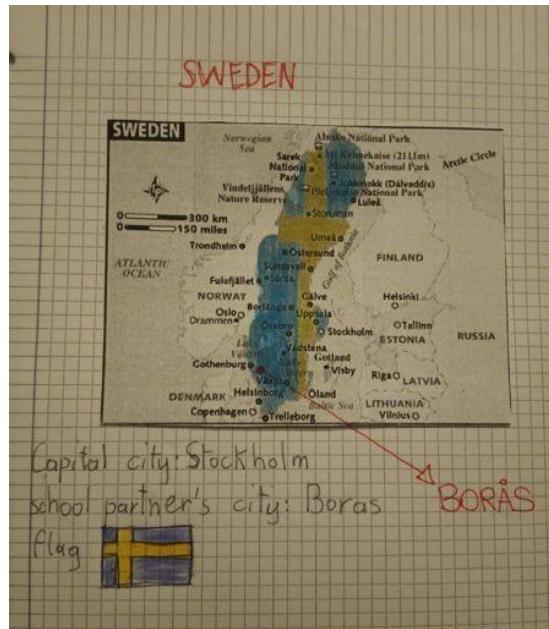
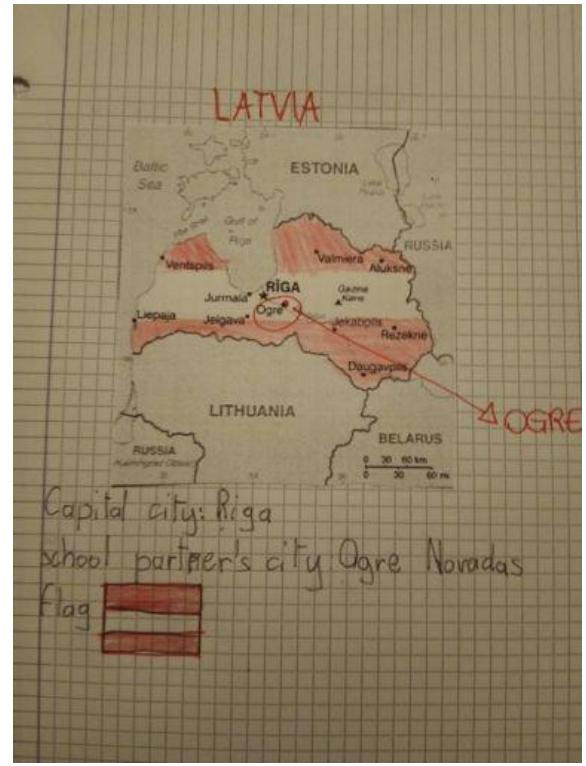
The work of each student is collected in a folder and shown at the exhibition for parents at the end of the year. Grade 5th prepare a poster to display the Identity Cards of each town involved in the project.

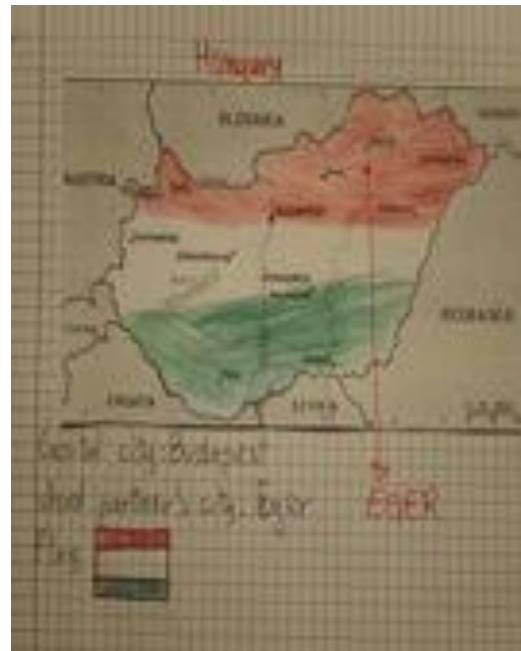
PHOTOS



WEATHER AND TEMPERATURE REGISTRATION POLAND (POLONIA) BIALYSTOK		
FEBRUARY 2018		
TUESDAY 20 TH	-2	0
WEDNESDAY 21 ST	-3	0
THURSDAY 22 ND	-3°	-1°
FRIDAY 23 RD	-5°	-3°
SATURDAY 24 TH	-9°	-2°
SUNDAY 25 TH	-11°	-7°
MONDAY 26 TH	-11°	-8°
TUESDAY 27 TH	-8°	-14°
WEDNESDAY 28 TH	-9°	-14°
THURSDAY 1 ST	-12°	-21°
FRIDAY 2 ND	-6°	-20°
SATURDAY 3 RD	-3°	-18°
SUNDAY 4 TH	0°	-15°
MONDAY 5 TH	-1°	-16°
TUESDAY 6 TH	-1°	-10°
WEDNESDAY 7 TH	2°	-12°
THURSDAY 8 TH	8°	-10°
FRIDAY 9 TH	10°	-10°







NATURAL COMPONENTS AND GEOGRAPHY OF
ITALY AND **SWEDEN**

COUNTRY	Italy	Sweden
AREA	301338 Km ²	450300 Km ²
INHABITANTS	60000000	66273 (2010)
THE HIGHEST MOUNTAIN	Monte Bianco 4800 mt	Monte Otemansu
THE LONGEST RIVER	Po 652 Km	Torne 521,63 Km
THE LARGEST LAKE	Lago di Garda 370 Km	Vänern 5650 Km ²
THE HIGHEST VOLCANO	Etna 3300 mt	
COASTLINE	7500 Km	9200 Km
THE LARGEST ISLAND	Sicily	
FLORA: PLANT SPECIES	3792	
FAUNA: ANIMAL SPECIES	56000	86 mammal species
AVERAGE TEMPERATURE	FROM -18°C TO 18°C	FROM -16°C TO 16°C
LATITUDES	41°N - 35°N	51°N - 43°15'N
LONGITUDES	6°W - 18°E	12°W - 56°26'E

Erasmus Project "Who is afraid of Mathematics?"
I.C. San Mauro I

