

COMPETIȚIA NAȚIONALĂ
„ȘCOALĂ EUROPEANĂ”
EDIȚIA 2023



ITALIA



REUNION ISLAND



PORTUGAL

Friendly
Maths



SPAIN



ROMANIA

2020-2021-2022

EUROPE



Instituții partenere:

- IES Ruiz de Alda - Spania (coordonatorul proiectului)
- Lycee Boisjoly Potier - Franta
- Istituto di Istruzione Superiore „A. Cesaris” - Italia
- Agrupamento de Escolas Pova de Lanhoso - Portugalia
- Școala Gimnazială Nr.184 București - România

Proiectul "Friendly Maths" implică achiziționarea de cunoștințe matematice. Acest proiect îi va ajuta pe elevii care au dificultăți în acest domeniu, să înțeleagă mai ușor anumite formule și exerciții legate de matematică. Matematica nu este doar despre perimetre, arii, radicali sau fracții, ci despre cum să ajungi să știi să folosești toate aceste comori cu care înaintașii noștri ne-au binecuvântat.

Obiectivele proiectului:

- creșterea interesului elevilor pentru matematică, și a abilităților matematice ale elevilor printr-o abordare practică și plăcută;
- cultivarea implicării în societate a elevilor din medii defavorizate în scopul creșterii încrederii de sine
- deschidere și respect față de alte culturi, stiluri de viață și idei;
- utilizarea activă a unei alte limbi;
- reducerea abandonului școlar.

The project main goal is to promote a positive attitude towards mathematics and provide students with the basic skills in this area to pursue further studies and cope with daily routines in which maths are required. The project is intended to show the pleasant, experiential and motivating aspects of this subject.

To promote the ACQUISITION OF BASIC SKILLS AND KEY COMPETENCES, the project aims:

1. To foster the students' interest in mathematics.
2. To boost students' maths skills.
3. To improve students and teacher's language and digital skills.
4. To provide students with applied skills in maths-linked everyday routines.
5. To link the mentioned skills with further studies choices pupils will be able to take on.

To promote SOCIAL INCLUSION the project will foster tolerant attitudes and equal opportunities for students with poor school results. The project aims:

1. To improve social skills in students from disadvantaged backgrounds in order to gain more self-confidence.
2. To involve families in school activities and cooperation in their children's progress at school.
3. To promote after school programs for students who need further help. Connecting schools, local authorities and entities in the community will be part of the goals when implementing project activities in each partner school.
4. To promote greater knowledge in teachers and students about the benefits of cooperation with their peers and at an international level.
5. To exchange best practices among partners (some lessons in partner schools will be conducted using possible methodologies like CLIL, gamification, escape-room, creative classrooms, etc.).
6. To increase language and digital competences among teachers and students.
8. To improve the sense of making our schools a more inclusive environment, especially for students with fewer opportunities. Some of these students will take part in local activities and student exchanges.

The last objective is TO TACKLE EARLY SCHOOL LEAVING AND DISADVANTAGE. The project aims:

1. To grow greater interest in mathematics.
2. To provide teachers gain better understanding of health and psychological difficulties students with poor results have.
3. To create activities and approaches that will be inserted in the curricula for future use.
4. To reduce drop-outs at our schools and help students to pursue future training.

Descrierea proiectului:

Proiectul "Friendly Maths" implică achiziționarea de cunoștințe matematice. Acest proiect îi va ajuta pe elevii care au dificultăți în acest domeniu, să înțeleagă mai ușor anumite formule și exerciții legate de matematică. Matematica

nu este doar despre perimetre, arii, radicali sau fracții, ci despre cum să ajungi să știi să folosești toate aceste comori cu care înaintașii noștri ne-au binecuvântat.

Noi intenționăm să folosim acest domeniu pentru a crește motivația și pentru a îmbogăți cunoștințele generale prin utilizarea unor metode inovatoare de predare și folosirea TIC în activitățile pe care elevii le vor desfășura în cadrul proiectului. Fiecare activitate și interacțiune dintre participanți va urmări să încurajeze interesul elevilor pentru matematică. Elevii proveniți din medii defavorizate vor învăța să aibă mai multă încredere în ei și vor avea ocazia să interacționeze cu elevi străini care au o cultură diferită de a lor.

Un efect secundar îl constituie utilizarea activă a limbii engleze. Este stimulată creativitatea, iar participanții vor învăța despre cum să se implice, să lucreze în activități de grup, să împartă idei cu ceilalți.

Elevii vor avea mai multe teme de abordat. În cadrul acestor teme, vor învăța că matematica poate fi amuzantă, îi poate ajuta în multe situații și mai mult de atât, este peste tot în jurul lor.

Se vor discuta 5 teme mari: "Maths is everywhere", "We are Maths", „Maths for health”, „Maths to go” și "Maths is fun".

De asemenea, în cadrul proiectului se vor organiza mobilități de elevi și profesori, în fiecare dintre țările partenere, unde aceștia vor avea ocazia să se cunoască și să lucreze împreună.

Description of the activity:

- Describe the content, methodology and expected results of the activity.
- How is it going to be related to or integrated with the normal activities of the involved schools?

Content of the activities: MATHS AND HEALTH AND HEALTHY LIFESTYLES.

Activities will prepare to students develop knowledge and reflect in the areas below:

1. Mathematics and statistics are reshaping health.
2. Math and epidemics.
3. Disease treatments and economy.
4. Math to keep us healthy and safe.
5. Physical exercise and Math Tips.
6. Genetic pattern to prevent diseases.
7. Mathematical modelling of domestic violence and its trends.
8. Tips to train, exercise, and better your Brain.
9. Professions to combine Math and Health.

Project-based learning, gamification and flipped-classroom are the methodologies will be use to work the areas above. Students will work in international groups and they will be challenged with activities related to the tasks described above. Challenges will be set by other groups as a kind of collaborative competition. Students are expected to learn about:

1. percentage calculations, interpreting graphs, ratio and proportion, probability and tree diagrams;
2. maths in context (mathematical modelling), creating and testing a mathematical model;
3. multi-step problems, using graphs and equations to solve problems;
4. conditional probability using contingency tables and tree diagrams;
5. strategic thinking;
6. the importance of math to address serious health problems, to make predictions about epidemics, to make decisions about disease treatments, to better understand how our bodies function and how we respond to drug treatments, to help people deal with genetic diseases, to prevent domestic violence, to help brain health and so on;
7. plan a project, organise tasks, set goals and plans to achieve them;
8. collaboration in an international setting;
9. appreciate the importance of overcoming language barriers and working in cross-cultural settings.

The activities during the meeting will include:

1. Introduction of the school, the local community and the region, with materials prepared by the students in the project.
2. Activities in project-based learning and game-design settings around the tasks mentioned above.
3. CLIL lessons and STEM lessons prepared by the students.
4. Outdoor activities with partners in the subject "Math and Health" (probably Porto University, Minho University, 3B - Research Centre, IPATIMUP, and others).
5. Presentation to the community the project-based learning results.
6. Evaluation and assessment of tasks, expressed in a mathematical language.
7. Publish of the activities by students on Twinspace.
8. Dissemination and social networking will be made by students under the teachers' supervision.

Id	Activity Type	Starting Period	Description
P1	Other Project Events	09-2019	<p>Kicking off in each school:</p> <ol style="list-style-type: none"> 1. information to the school staff, teachers, emailing to all teachers about the project guidelines, activities and possibilities to participate (through eTwinning and the Erasmus+ project). 2. advertising at school spaces (like the Europe's corner and other school noticeboards), and school website. 3. information to the parents' association and school council. Specifying the ways for collaboration of all the school community. 4. insertion of project activities in the school curricula through various subjects: contents, methodology, activities, groups of students...
P2	Other Project Events	09-2019	<p>Organising the working teams at schools:</p> <ol style="list-style-type: none"> 1. teachers' working team planning, ways to collaborate and participate in activities in many subjects. Updating everyone about how the project is inserted in school curricula and other school organisational documents. 2. students' working team: identifying students in disadvantaged situations, how to make their participation real, teachers' supervision about their motivation and participation. Assignment of responsibilities. 3. contact with local authorities for collaboration, coordination, town/city centers (like the venue for the teachers training event), dissemination in the local community, etc. 4. managing participants on the Twinspace.
P3	Other Project Events	09-2019	<p>Tuning up among partner schools:</p> <ol style="list-style-type: none"> 1. opening the forum for the teachers training event on the Twinspace, shared folders with materials, online meetings. 2. setting of the project blog and Twinspace pages and other project dissemination tools (folders on Drive, photo albums, Youtube, Instagram, Facebook, etc.). 3. questionnaires for teachers to assess their expectations, doubts on the project, etc. before the training event. 4. sharing among partners about each school kicking-off: pictures of meetings, preparation materials (parents' consent for students, rule of conduct for pupils and others considerations about students' participation in the project).

			5. practical information about the training event: accommodation, trips, speakers, certificates, meals, estimate for expenses, etc.
C1	Short-term joint staff training events	10-2019	Friendly maths: resources and strategies
P4	Other Project Events	10-2019	Teachers' working team in each school: 1. how activities are being performed in different subjects: identifying the tasks that will lead to the programme of activities for the first short term exchange of pupils. 2. timetable for tasks and productions. Publishing on the Twinspace. This task will be developed during the entire school year. Supervision by school coordinators
P5	Other Project Events	10-2019	Preparation of the teachers visit to the hosting school: welcome by the school community, local authorities. Information to the media and other dissemination activities.
P6	Other Project Events	11-2019	Assessment of the teachers' training event: 1. questionnaires and other evaluation materials (Portugal). 2. coordination of adjustments for improvement and redefining aspects that were assessed negatively (Spain). 3. publishing on the blog and Twinspace of the materials worked during the event and dissemination of pictures and videos (Italy and Romania).
P7	Other Project Events	11-2019	Starting the international working teams on the Twinspace forums for the exchange meeting in Italy: 1. registration of students and initial training. 2. assignment of teachers to each group. 3. starting the tasks with the students. These tasks will be about relating maths with everyday life and activities. Thanks to that, materials will be created for presentation during the exchange meeting through creative presentations, discarding more traditional ways like Power Point.
P8	Other Project Events	01-2020	Organisation of the meeting in Casalpusterlengo: 1. information about teachers and students who will participate. 2. accommodation, meals, programme for the meeting. Estimate of expenditures for partners. 3. creation of materials for the meeting (information about the visits by hosting students, materials for

			workshops, responsibilities for taking pictures, videos, etc.about the meeting and social networking, assessment activities with students). 4. dissemination programme for the meeting.
C2	Short-term exchanges of groups of pupils	02-2020	Casalpusterlengo: Maths is everywhere
P9	Other Project Events	02-2020	Post meeting tasks: 1. review of Twinspace performance, pages and project journal (France). 2. assessment questionnaires (Portugal). 3. suggestions for improvement (Spain). 4. posting of pics, experiences, videos, etc. (Romania). 5. assessment of dissemination (Italy).
P10	Other Project Events	02-2020	Starting the international working teams on the Twinspace forums for the exchange meeting on La Réunion: 1. registration of students and initial training. 2. assignment of teachers to each group. 3. starting the tasks with the students. These tasks will be about activities that will show the presence of maths in our body, our daily routines (eating, scheduling time, ...), and our behaviour. Thanks to that, materials will be created for presentation during the exchange meeting through creative presentations, discarding more traditional ways of presentations like Power Point.
P11	Other Project Events	03-2020	Organisation of the meeting on La Réunion: 1. information about teachers and students who will participate. 2. accommodation, meals, programme for the meeting. Estimate of expenditures for partners. 3. creation of materials for the meeting (information about the visits by hosting students, materials for workshops, responsibilities for taking pictures, videos, etc.about the meeting and social networking, assessment activities with students). 4. dissemination programme for the meeting.
C3	Short-term exchanges of groups of pupils	05-2020	La Réunion: We are maths
P12	Other Project Events	06-2020	Post meeting tasks: 1. review of Twinspace performance, pages and project journal (France). 2. assessment questionnaires (Portugal). 3. suggestions for improvement (Spain).

			<p>4. posting of pics, experiences, videos, etc. (Romania).</p> <p>5. assessment of dissemination (Italy).</p>
P13	Other Project Events	09-2020	<p>Kicking off the second year in each school:</p> <ol style="list-style-type: none"> 1. checking if any updating is needed regarding the information to the school staff, teachers, emailing to all teachers about the project guidelines, activities and possibilities to participate (through eTwinning and the Erasmus+ project). Many new teachers arrive when the school year starts and they may be invited to join the project 2. advertising at school spaces (like the Europe's corner and other school noticeboards), and school website. 3. information to the parents' association and school council. Specifying the ways for collaboration of all the school community. 4. insertion of project activities in the school curricula through various subjects: contents, methodology, activities, groups of students...
P14	Other Project Events	09-2020	<p>Organising the working teams at schools:</p> <ol style="list-style-type: none"> 1. teachers' working team planning, ways to collaborate and participate in activities in many subjects. Updating everyone about how the project is inserted in school curricula and other school organisational documents. 2. students' working team: identifying students in disadvantaged situations, how to make their participation real, teachers' supervision about their motivation and participation. Assignment of responsibilities. 3. contact with local authorities for collaboration, coordination, town/city centers (like the venue for the teachers training event), dissemination in the local community, etc. 4. managing participants on the Twinspace.
P15	Other Project Events	10-2020	<p>Starting the international working teams on the Twinspace forums for the exchange meeting in Póvoa de Lanhoso:</p> <ol style="list-style-type: none"> 1. registration of students and initial training. 2. assignment of teachers to each group. 3. starting the tasks with the students. These tasks will be about maths and health and healthy lifestyles. Thanks to that, materials will be created for presentation during the exchange meeting through creative presentations, discarding more traditional ways of presentations like Power Point.

P16	Other Project Events	10-2020	<p>Organisation of the meeting in Póvoa de Lanhoso:</p> <ol style="list-style-type: none"> 1. information about teachers and students who will participate. 2. accommodation, meals, programme for the meeting. Estimate of expenditures for partners. 3. creation of materials for the meeting (information about the visits by hosting students, materials for workshops, responsibilities for taking pictures, videos, etc. about the meeting and social networking, assessment activities with students). 4. dissemination programme for the meeting.
C4	Short-term exchanges of groups of pupils	11-2020	Póvoa de Lanhoso: Maths for health
P17	Other Project Events	12-2020	<p>Post meeting tasks:</p> <ol style="list-style-type: none"> 1. review of Twinspace performance, pages and project journal (France). 2. assessment questionnaires (Portugal). 3. suggestions for improvement (Spain). 4. posting of pics, experiences, videos, etc. (Romania). 5. assessment of dissemination (Italy).
P18	Other Project Events	12-2020	<p>Starting the international working teams on the Twinspace forums for the exchange meeting in San Javier:</p> <ol style="list-style-type: none"> 1. registration of students and initial training. 2. assignment of teachers to each group. 3. starting the tasks with the students. These tasks will be about the contribution of maths to tasks like starting a business, the alteration of a house, measuring towns and cities, working in a travel agency or cooking. Thanks to that, materials will be created for presentation during the exchange meeting through creative presentations, discarding more traditional ways of presentations like Power Point.
P19	Other Project Events	01-2021	<p>Organisation of the meeting in San Javier:</p> <ol style="list-style-type: none"> 1. information about teachers and students who will participate. 2. accommodation, meals, programme for the meeting. Estimate of expenditures for partners. 3. creation of materials for the meeting (information about the visits by hosting students, materials for workshops, responsibilities for taking pictures, videos, etc. about the meeting and social networking, assessment activities with students). 4. dissemination programme for the meeting.

C5	Short-term exchanges of groups of pupils	02-2021	San Javier: Maths to go
P20	Other Project Events	03-2021	<p>Post meeting tasks:</p> <ol style="list-style-type: none"> 1. review of Twinspace performance, pages and project journal (France). 2. assessment questionnaires (Portugal). 3. suggestions for improvement (Spain). 4. posting of pics, experiences, videos, etc. (Romania). 5. assessment of dissemination (Italy).
P21	Other Project Events	03-2021	<p>Starting the international working teams on the Twinspace forums for the exchange meeting in Bucharest:</p> <ol style="list-style-type: none"> 1. registration of students and initial training. 2. assignment of teachers to each group. 3. starting the tasks with the students. These tasks will be about the fun they can experience challenging their curiosity and skills (Maths in theater plays, TV series, video games, etc.). Thanks to that, materials will be created for presentation during the exchange meeting through creative presentations, discarding more traditional ways of presentations like Power Point.
P22	Other Project Events	03-2021	<p>Organisation of the meeting in Bucharest:</p> <ol style="list-style-type: none"> 1. information about teachers and students who will participate. 2. accommodation, meals, programme for the meeting. Estimate of expenditures for partners. 3. creation of materials for the meeting (information about the visits by hosting students, materials for workshops, responsibilities for taking pictures, videos, etc. about the meeting and social networking, assessment activities with students). 4. dissemination programme for the meeting.
C6	Short-term exchanges of groups of pupils	04-2021	Bucharest: Maths is fun
P23	Other Project Events	05-2021	<p>Post meeting tasks:</p> <ol style="list-style-type: none"> 1. review of Twinspace performance, pages and project journal (France). 2. assessment questionnaires (Portugal). 3. publishing pictures, experiences, videos, etc (Romania). 4. assessment of dissemination and proposals at the international level (Italy and Spain). 5. proposals for replicating the project after implementation (use of resources and materials,

			availability from school websites, etc.). 6. applying for quality labels and eTwinning centers (each partner).
P24	Other Project Events	06-2021	Tasks in each partner school: assessment of the project by the school project teams. Prospects for continuation. Final tasks till September 2021: 1. assessment of the project performance and visibility on the Twinspace (France). 2. assessment of the information from the questionnaires (Portugal). 3. assessment of the dissemination accomplished by the partner schools (Italy). 4. assessment of the impact of the project in schools: teachers, future projects, impact on curricula, development of the European identity (San Javier). 5. availability of all partners for provision of information for the final report.

Mobility in Romania.

A lot of activities were carried out by students. They enjoyed maths games and sketches.







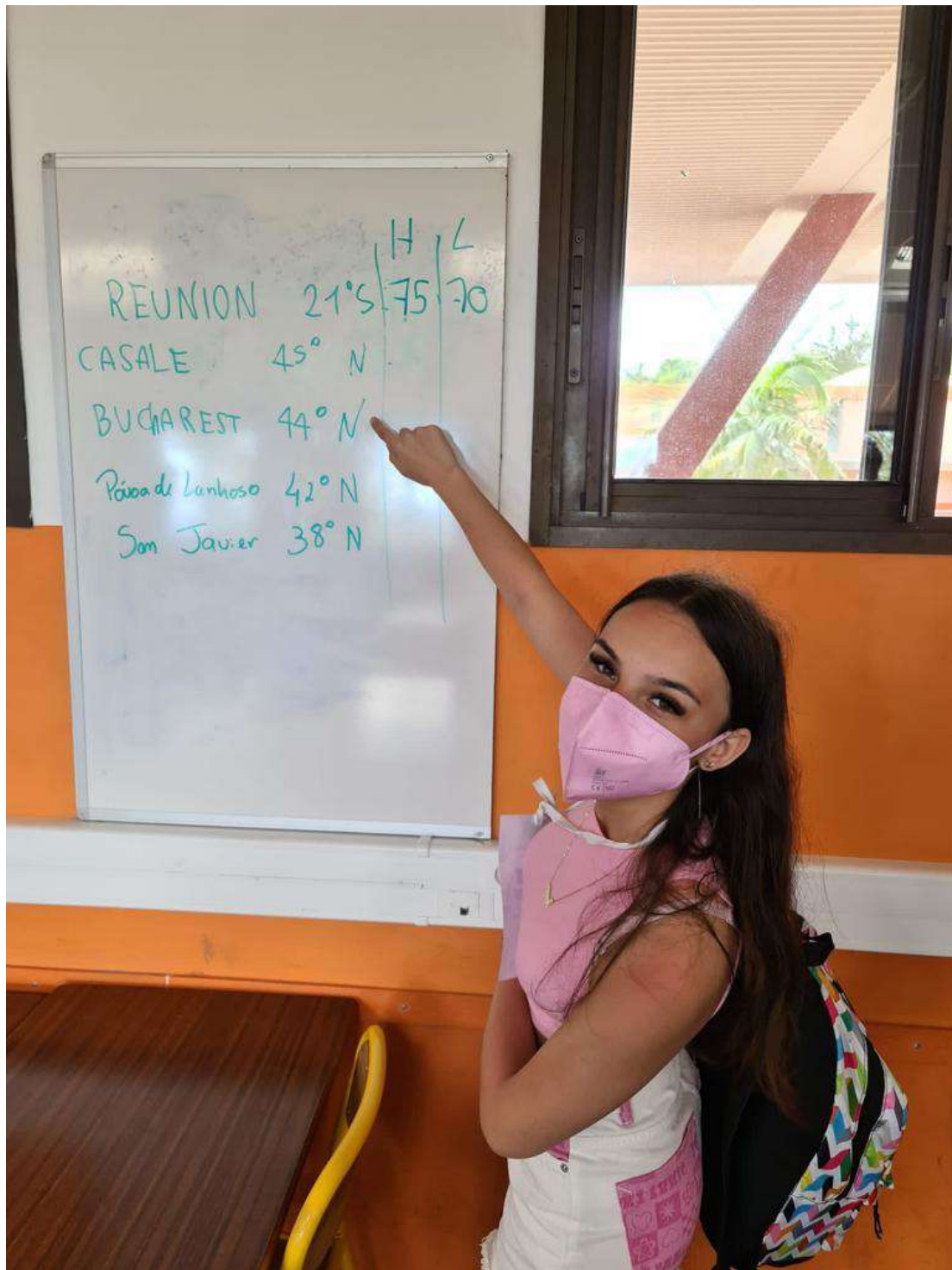
Mobility in Romania.

Traditional dances welcomed in the school courtyard





Mobility in Réunion. Students enjoyed the perfect organisation of activities









FRIENDLY MATHS PORTUGAL MOBILITY

OCTOBER, 2021

PT ES FR IT RO EU

On the fourth day of the October 25-29 week, the involved teachers and students participated in the:

- ☑ Visit to Sameiro and Bom Jesus cathedrals in Braga
- ☑ Visit to Castelo Lanhoso in Póvoa de Lanhoso
- ☑ "Healthy diet" activity (students prepared healthy food in the biology laboratory)
- ☑ "Maths for health" mask contest (the masks were prepared before the mobility in Portugal and exposed to vote for the most successful mask) 🗳️ Traditional local games (in the gym)













ALBERTO BONFITTO



ALBERTO BONFITTO







BOGDANB



BOGDANB











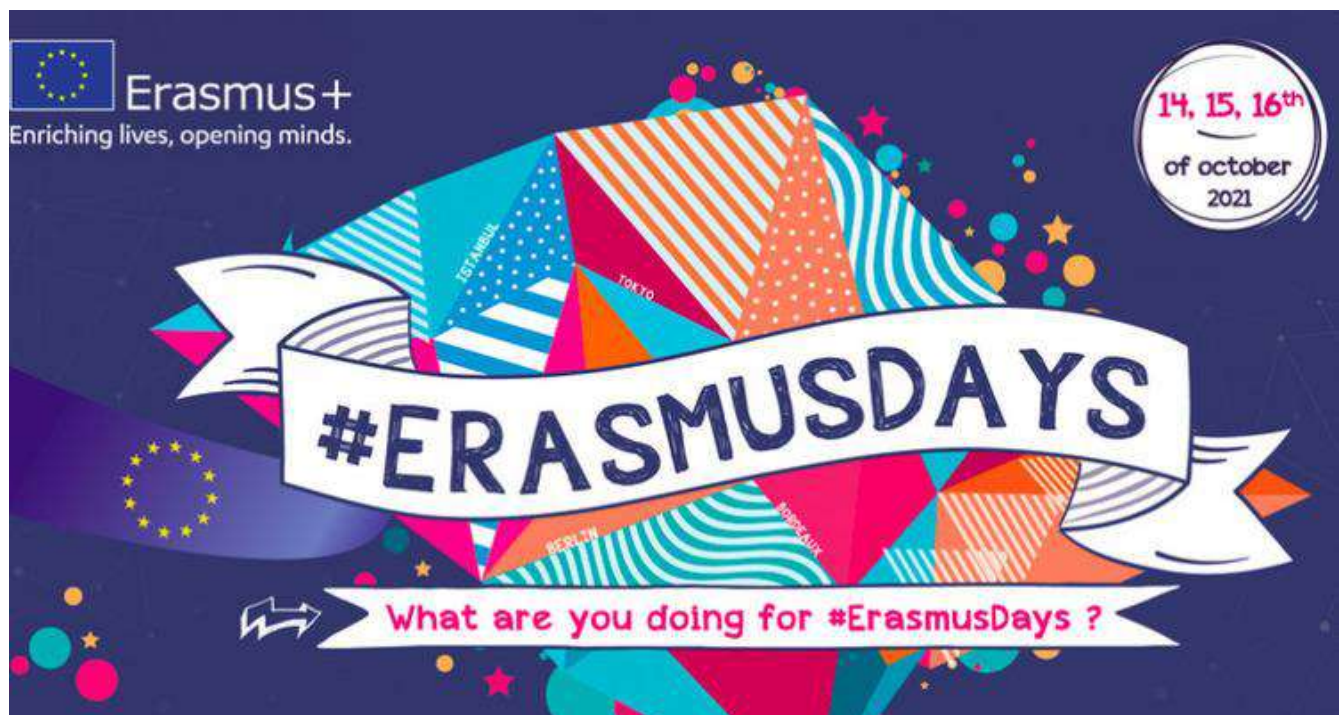












Last Thursday 16th September we met (on-line) to organise the next mobility: The meeting will be in Póvoa de Lanhoso - Portugal and the theme is "MATHS AND HEALTH".



The screenshot displays a Zoom meeting in progress. On the left, a Google Docs document titled "topics" is open, showing a list of agenda items for a meeting. The right side of the screen shows a grid of 10 video thumbnails of participants.

Agenda Items from the Document:

- 1) Introduction of the new teachers.
- 2) Organising activity C4: "Maths for health" in Póvoa de Lanhoso.
 - 2.1) Information regarding accommodation, travel, Covid, etc... that colleagues from the host country would like to share in this meeting.
 - Explain the situation of the accommodation in the youth hostel
 - Airport - Oporto
 - Transfer - Get Bus - Porto-Braga - e Braga - Porto
 - 2.2) Proposal of activities to develop with students in this period until the meeting that starts on October 25th.

Participants in the Meeting:

- Giuseppe Petr...
- Iva Azeredo
- Rosa Carvalho
- GIORGIA PAS...
- MARIA PEREZ ...
- Alberto Bonif...
- José Guérios
- Bogdan Babar...
- Sonia Pottler
- ANA ISABEL VILLENA M...
- TU

The screenshot shows a Zoom desktop application window. On the left, there's a sidebar with a calendar view for the month of May 2021. The main area displays a grid of participants in a video call. The participants are arranged in a 3x3 grid, with some names partially visible: Gaetano Petr..., Iva Azevedo, Rosa Carvalho, GIORGIA PAS..., MARIA PEREZ, José Queiroz, Bogdan Babar..., Sonia Pottier, ANA ISABEL V..., and TU. The bottom of the screen shows a toolbar with various icons for managing the meeting.



This pandemic only gave us a break where we didn't stop. ⏸️ ▶️

On Friday, May 28, 2021 we met online to present our late activity. We also trained in a Kahoot contest and evaluated how we managed ourselves.





WHERE IS MATHS?

Interviews

The portuguese students are preparing their interviews to someone who works with Maths!



MATH IS FUN

Develop your capacity for analysis and synthesis, encourage creativity and imagination, train your memory, develop logic and concentration and have a good time playing with friends in the

second online chess tournament of the IES Ruiz de Alda





We are Math

In spite of COVID-19, of not being able to see your friends and family, touch them, meet them, share with them...





It all started here in San Javier (Spain) in our first transnational meeting. Today marks one year since the European Friendly Maths project started its implementation, it has presented its strategies, methodologies and responsibilities to each partner. We also set up the following meetings in Casalpusterlengo (Italy), La Réunion (France) and Póvoa de Lanhoso (Portugal).



WELCOME to the first "Friendly Maths" Meeting in ITALY!



Today we played with Kahoot and we tested our knowledge about the Friendly Maths project and the Twinspace platform.





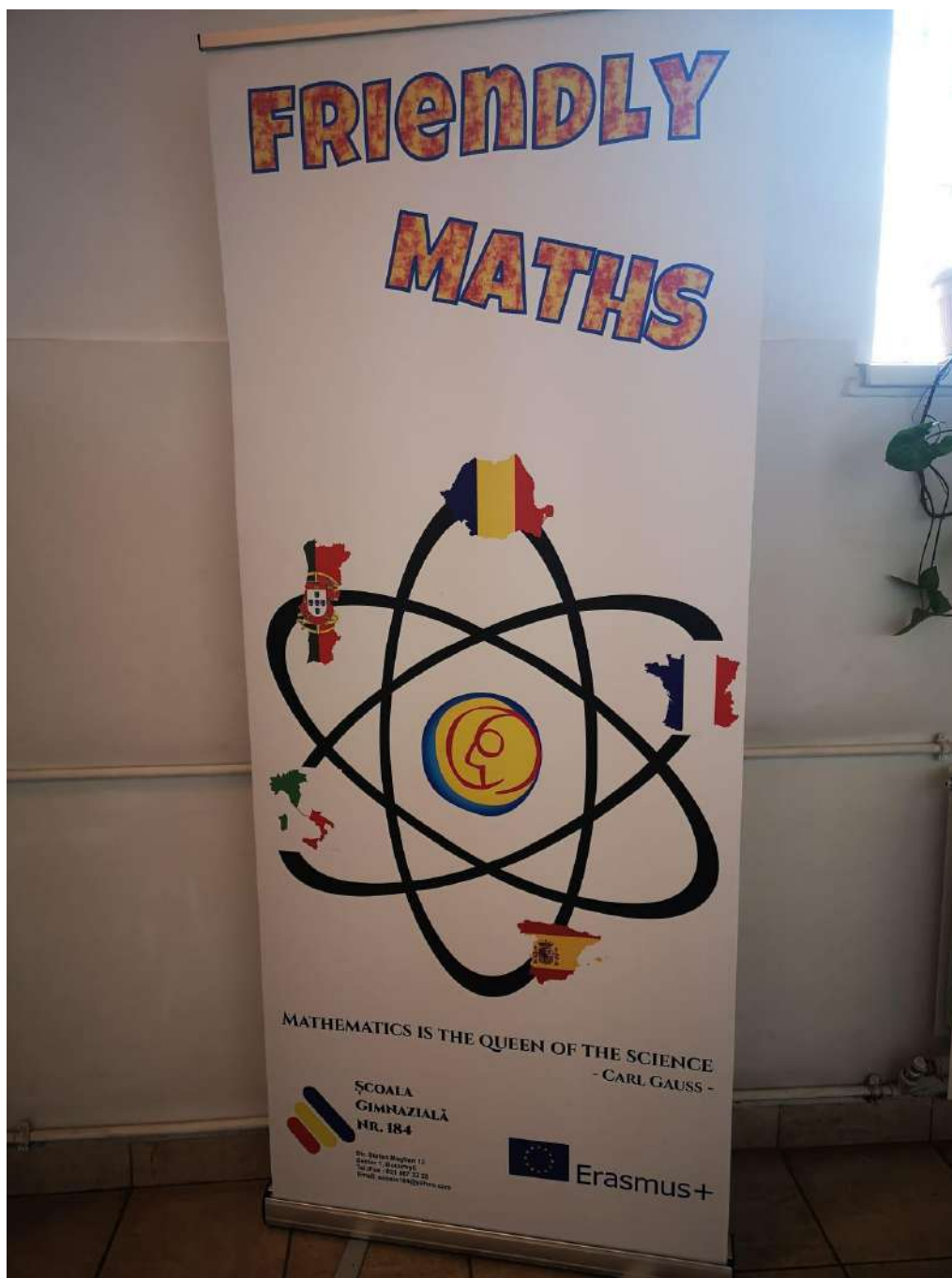


Romanian students RO in Forum 4 are involved in a teamwork to solve a task about how long does it take to fill a bathtub or a swimming pool. This is really challenging!



Diseminare și valorizare:

- Prezentarea proiectului tuturor profesorilor din școală.
- Organizarea de workshop-uri pe tema matematica.
- Proiect eTwinning la care vor avea acces un număr cât mai mare de profesori.
- Afișe, posetere și flayere de prezentare a proiectului și rezultatelor acestuia.
- Grup pe Facebook
- Grup pe What's up









Innovative Sustainable Cultural Heritage via ICT

Un proiect etwinning prin care elevii au lucrat la Moștenirea Culturală cu TIC, folosind Web2.0 și au creat un muzeu 3D despre Patrimoniul Cultural și au adăugat acel Muzeu 3D pe harta Google.



<https://twinspace.etwinning.net/80077/home>

<https://twinspace.etwinning.net/80077/pages/page/618031>