



Erasmus+



Co-funded by the
Erasmus+ Programme
of the European Union

**Analysis of survey done after the
first stage “STEM+A_MATH VIEW”
by all countries of project
“STEM+A around us”**



May, 2021



Number of participants:

| COUNTRY | STUDENTS | | | TEACHERS |
|----------|----------|------|-------|----------|
| | TOTAL | BOYS | GIRLS | |
| SPAIN | 150 | 70 | 80 | 10 |
| TURKEY | 108 | 55 | 53 | 6 |
| POLAND | 10 | 5 | 5 | 4 |
| BULGARIA | 90 | 48 | 42 | 5 |
| ITALY | 50 | 20 | 30 | 8 |
| HUNGARY | 126 | 74 | 52 | 10 |

Improving language skills- conclusions:

Spain



- 80% students think that their participation in Erasmus project helped them to develop their language skills in English, especially oral communication skill.
- In their opinion their level of communication in English with foreign project students was high.
- They didn't travel so they missed the direct relationship with other countries student.
- **Conclusion:**
- Students are satisfied with the level of English used at the project. They liked the activities with communication between students.
- It's good and necessary to do more activities with students from different countries interaction.
- They missed the trip activity and hosting foreign students. The trip was not done because COVID 19 situation.

Improving language skills- conclusions:

POLAND



All of students were very satisfied with the activities. They think that the level of English was very high, and that they improve their communication using foreign language. By participating in the project they became more independent and open-minded.

conclusion:

The result of the observation shows that some students were active and brave to speak English. The improvement of the students' speaking skills can also be seen on their abilities to correct their mistakes in pronouncing some words in English and reduce the use of their native language in different discussion.

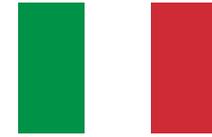
Improving language skills- conclusions: Bulgaria



- According to students they believed that they improved their language skills. Almost 90% of them think that the most useful skill is oral communication with their foreign peers. In their opinion their level of communication in English with foreign project students was high.
- Because the COVID 19 situation the international meeting was held online, so the students missed the communication in a real situation outside the classroom with their foreign friends and the host families.
- **Conclusion:** Students are satisfied with the level of English used at the project. They liked the activities with communication between students. It's good to have more activities connected with the oral communication between the students from the countries in the project.

Improving language skills- conclusions:

Italy



The students think they improved their language skills in English, especially oral communication. Unluckily they didn't travel because of the Covid situation and the international meeting was held on line, so they missed the direct relationship with other countries students and the host families.

- **Conclusion:** They are satisfied with the level of English reached during the activities with oral communication and think it is important to have more activities of this kind.

Improving language skills- conclusions: Turkey



- According to students, they have improved the ability to communicate with foreign peers.
- Almost 90% of them think that the most useful skill is oral communication.
- Because of the COVID 19 situation ,the international meeting was held online, so the students missed the direct communication with foreign peers and host families.

Conclusion:

Some of the students have still difficulty in creating written texts and speaking fluently but most of them are satisfied with the level of English used at the project.

Improving language skills- conclusions:

Hungary



According to students, they have improved the ability to communicate with foreign peers.

Conclusion: They are satisfied with the level of English reached during the activities with oral communication and think it is important to have more activities of this kind.

Improving STEM+A skills- conclusions:

Spain



- 100% students think that their participation in Erasmus project helped them to develop their STEM skills.
- Almost 40% think Math was the skill they developed the most.
- **Conclusion:**
- They like work STEM and 100% was happiness because they worked Math in other way. They loved 3D printing activity.
- They think they improved their STEM and the project helped them to improve their Math skills and they like it.

Improving STEM+A skills- conclusions:

POLAND



- 100% of respondents stated that all activities and cooperation with their friends helped them to improve their STEM skills.
- Especially, nearly 85% think that they made a progress in Science and Maths. What's more, they claimed that they are more interested in those two subjects.

conclusion:

Teaching Science and Maths in different way made students more motivated in learning. They started to be more creative and engaged.

Improving STEM+A skills- conclusions: Bulgaria



- All the students think that they improved their STEM skills. The most interesting for them was 3D printing. It was a really new activity for our students because we didn't have 3D printer at school till the meeting. But they enjoy it so much.
- **conclusion:**• Bulgarian students liked all activities. They improved their skills in Maths, ICT. Even they worked in not a typical situation students used creativity and critical thinking during the activities of the stage and enjoyed it.

Improving STEM+A skills- conclusions:

Italy



The students involved in the Erasmus project think they improved their STEM skills. They found all the activities very interesting.

- **conclusion:** Even though they worked on line they managed to be creative and enjoyed it.

Improving STEM+A skills- conclusions: Turkey



- 90% students think that their participation in Erasmus project helped them to develop their STEM skills.

They found all the activities very interesting and they enjoyed a lot.

conclusion:

- They improved their skills in Maths and ICT.
Even though the students worked online, they used creativity and critical thinking during the activities of the stage and enjoyed it.

Improving STEM+A skills- conclusions: Hungary



Our students think that their participation in Erasmus project helped them to develop their STEM skills.

Conclusion: Even though they worked on line they managed to be creative and enjoyed it.

Improving ICT skills- conclusions: Spain



- Most of students think they improved their ICT skills during the Project and they like it.
- With online activities they used different ICT tools and enjoyed a lot with them.

Conclusion:

- We will use more ICT tools during the Project.
- With online activities they used lots of ICT tools and they liked it.

Improving ICT skills- conclusions:

POLAND



Most of the students really enjoyed using ICT in the class. Definitely teachers should use more tools during their classes.

Creating tangram wasn't easy for them but they dealt with the task brilliantly.

conclusion:

Polish students definitely improved their ICT skills.

Improving ICT skills- conclusions: Bulgaria

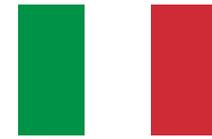


- According to students they achieved very good level of ICT skills in the project. They used different ICT tools with online activities and some of them were new for them.
- They enjoyed creating their own online tangram puzzles .and gained new knowledge in ICT and Maths.

conclusion: With online activities students used new and different ICT tools and enjoyed a lot with them. They improved their ICT skills.

Improving ICT skills- conclusions:

Italy



A great part of the students think that they improved their ICT skills and achieved a very good level. They enjoyed creating online their own tangram puzzles.

- Conclusions:

They liked to use lots of ICT tools.

Improving ICT skills- conclusions: Turkey



- Most of students think they improved their ICT skills during the project and they like it.
- They used different ICT tools with online activities and some of them were new for them.
- They enjoyed creating online their own tangram puzzles.

conclusion:

- With online activities students used new and different ICT tools and enjoyed a lot with them.
- They improved their ICT skills.

Improving ICT skills- conclusions:

Hungary



Our students think they improved their ICT skills during the project and they like it. Many students use their own devices during online meetings.

Conclusion: With online activities students used new and different ICT tools and enjoyed a lot with them.

Improving social and cultural skills- conclusions:

Spain



- Most of students did the activities in groups or pairs. They enjoyed working together.
- They used to decided what to do everybody voluntarily or in negotiation way. This is very important because they are learning for future and for group work at schooll, university and their life.
- Online activities were done in full groups.
- They use to solve problems talking and discussing and this is great for their future.
- The atmosphere during the project activities was good or very good (100% enjoyed the activities).

Conclusion:

- Project work is very important to improve social and cultural skills.
- Students couldn't travel but they enjoyed a lot because they had the chance to meet lots of different people with different cultures with all their colleagues during STEM classes.

Improving social and cultural skills- conclusions:

POLAND



All of students were involved and comfortable with people from different cultures and backgrounds. In the class, they worked effectively in pairs, preparing brain-storing maps and conclusions. They took part in discussions. Nearly 100% of students who were involved in the project really liked online activities

conclusion:

Students were very sorry that they couldn't travel because of the COVID-19 situation. Nevertheless, they became more appreciative of other cultures.

Improving social and cultural skills- conclusions: Bulgaria

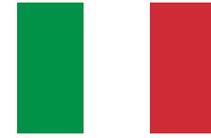


- Because the situation with COVID 19 our student worked in smaller groups than usual and mostly in pairs. They had opportunity to exchange opinions and experience. They solve problems by discussions in a negotiation way. The students like working together and are more self confident in their way of working.
- The students think that the atmosphere during the project work was very good.

conclusion: Students couldn't travel but during the online meeting they had the chance to communicate with their foreign friends, to share ideas and to solve problems together. They enjoyed it a lot. They also learned different things about the countries and culture of their peers.

Improving social and cultural skills- conclusions:

Italy



- They did the activities in groups or pairs and liked working together. The atmosphere was very good.
- **conclusion:** Students couldn't travel. However they had the opportunity to share ideas and communicate with foreign partners online.

Improving social and cultural skills- conclusions:

Turkey



- Students worked in pairs or groups and liked working together.
- They had opportunity to exchange opinions and experience. They solve problems by discussions in a negotiation way.
- Because of the situation with Covid 19, they had possibility to meet and solve tasks in international groups online

conclusion:

- Students didn't have a chance to travel but during the online meeting they had the chance to communicate with their foreign friends, to share ideas and to solve problems together. They enjoyed it a lot. They also learned different things about the countries and culture of their peers.

Improving social and cultural skills- conclusions:

Hungary



Students worked in groups and liked working together.

Conclusion: Students couldn't travel but they enjoyed a lot because they had the chance to meet lots of different people.

General questions:

Spain



- 100% students enjoyed the activities.
- They enjoyed working Math in a different way.
- 3D printing activity was the most valorated activity.
- Trip and activities with students from different countries was the most valorated. They love share activities.

Conclusion:

- They like all the activities
- They like the contact with students from other countries. So it is necessary to strengthen the peer relationships of the different countries, through more reading texts, more skype and this activities with students from other countries.

General questions:

POLAND



- 100% of Students who took part in the Erasmus Programme were satisfied with all activities
- They especially enjoyed using Maths, ICT in the online activities and websites which they hadn't known before

conclusion:

All the students definitely gained broad knowledge about Maths, Art, Science and using ICT. They improved their communication, language and intercultural skills. For sure, they will participate in Erasmus programme again.

General questions: Bulgaria



- 100% of the students likes the activities and all of them regarded the project online meetings as interesting and involving.
- Students improved their skills and gained knowledge in Maths, ICT, Art. They became familiar with new activities they didn't do before as 3D printing and they were very interested in it.
- Students definitely gained knowledge about project countries,

conclusion: Because of the COVID 19 situation students and teachers did online activities and met each other online but all students developed variety of skills to cope with many tasks and became more open - minded in social way. All of them want to participate in another Erasmus project.

General questions:

Italy



- Students liked all the activities and considered the online meetings very involving. They achieved good levels in Maths and ICT.
- **conclusions:** It was necessary to do online activities because of the Covid situation but students managed to cope with many tasks. They would like to take part in another Erasmus project.

General questions: Turkey



- 100% of the students likes the activities and all of them regarded the project online meetings as interesting and involving.
- Students are very interested in communication with other foreign students, they like speak about several cultural things.

conclusion:

- They liked all the activities.
- During online meetings, they had a chance communicate with peers in a big group from different countries.

General questions: Hungary



It was necessary to do online activities because of the Covid situation but students managed to cope with many tasks.

conclusion: Students definitely gained knowledge about project countries.

Level of students' satisfaction:

Spain



- The students valorated their participation in the project between very good and excelent.
- So level of student's satisfaction is very high.

Conclusion:

- Spanish's students are really happy with the Project
- They are enjoying and learning.

Level of students satisfaction:

POLAND



All participants really like activities during the Erasmus programme. They love to travel to other countries. They have gained a lot of new knowledge, friends from all over the world, and memories that cannot be put into words. It is definitely a guide for their further personal and career development.

conclusion:

The students are grateful that they could participate in the project.

Level of students' satisfaction:

Bulgaria

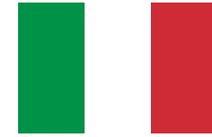


- All the students think that their level of participation in the Project was very good and high. They worked enthusiastic and enjoyed the activities.

conclusion: Bulgarian students enjoyed the activities. They found them interesting and motivating. They improved their skills and gain new knowledge in different fields.

Level of students' satisfaction:

Italy



- They think their participation in the project was very good. They enjoyed all the activities
- **conclusions:** They gained new knowledge in different fields.

Level of students satisfaction: Turkey



- Our students were very interested in all kind of activities.
- Through taking an active role in the project the students gained self-confidence.

conclusion:

The students feel lucky because by working with foreign peers, they explore new ideas, learn about different cultures, develop communicative skills and the feeling of satisfaction.

Level of students satisfaction:

Hungary



Our students love all of online activities.

conclusion: Our students improved their skills and gain new knowledge in different fields.

INFORMATION COLLECTED BY

- Spanish information collected by Leticia Reyes
- Polish info by Karolina Przybylska-Zebzda
- Turkish info by Seda Uzcan
- Italian info by Michela Iannantuono
- Bulgarian info by Elisaveta Slavkova
- Hungarian info by Peter Piltmann

