



"Innovative enriching education processes for Mathematically Gifted Students in Europe"

[www.innomath.eu](http://www.innomath.eu)

# Newsletter

March 2022

4<sup>th</sup> issue



## NEWS

### INNOMATH project..... 31 months later...

The INNOMATH project, "Innovative enriching education processes for Mathematically Gifted Students in Europe", is completed! The project was approved and funded by the European Commission under ERASMUS+ KA2 in the field of Strategic Partnerships for school education. The project started on September 1<sup>st</sup>, 2019 under the coordination of the VHS Institute-Volkshochschule Schorbenhausen EV (Germany based) and a partnership of another 7 organizations, namely, the Cyprus Mathematical Society in Cyprus, the Pedagogical University of Krakow in Poland, the Humboldt University of Berlin in Germany, the Immanuel Kant Gymnasium in Germany, the Casa Corpului Didactic Teleorman in Romania, the Heritage Private School in Cyprus and the Claude Bernard University of Lyon 1 in France.



The INNOMATH project developed new methodologies for supporting gifted pupils in mathematics of age 10-18, which can be used inside and outside any school environment.

The field of teaching, learning and support to gifted students is surrounded by a lot of emotions, there is no model of definition on giftedness that researchers have agreed upon. The different models argue if giftedness is innate or if it is developed. Most of the modern models claim that the development part at least is the most important - in relation to why we should do anything at all in education for those students who we can call for example gifted, talented, excellent, or highly able. In addition, many teachers feel uncertain of how to reach their "gifted" students, they are unsure whether their math skills are good enough and they are not familiar with pedagogical methods on how to include the "gifted" in learning. Most articles on gifted education end up "teachers need more professional development on giftedness".

The project has produced an innovative set of guidelines and tools for teachers enriching their competence for supporting gifted pupils inside and outside the classroom environment.

The results of INNOMATH are expected to contribute also to the following school education priorities as described in ERASMUS+ Programme Guide:

1. Supporting teachers in dealing with diversity in the classroom;
2. Supporting teachers in adopting collaborative and innovative practices,
3. Supporting schools to tackle disadvantage and to offer quality education, enabling success for all students, from the LOWEST to the HIGHEST end of the academic spectrum.

To communicate with the project, write to [info@innomath.eu](mailto:info@innomath.eu)

## INNOMATH Meetings

A transnational project meeting of the INNOMATH project was held, in hybrid form, at Lyon France. The meeting was hosted by our partners: the Claude Bernard University of Lyon 1 in France at 13-14, December 2021. During the meeting the partners had the opportunity to discuss the last steps of the project and to assure that its quality standards remain high before and after its completion. Also, the meeting helped the partners in setting their last goals to achieve for the needs of the project.

Visit the project [website](#) to access educational useful content.



The Final transitional project meeting of the INNOMATH project was held face-to-face at Krakow, Poland. The meeting was hosted by our partners: the Pedagogical University of Krakow at 31, January 2022. The final meeting was a great opportunity for the partners to meet physically for the last time before completing the project. It was a fruitful meeting in which various issues in regard to quality and exploitation of the project, were discussed. The agenda focused on the last reporting from the partners, dissemination activities and most importantly how the partners are going to continue to implement MID-day events at least once a year to highlight the importance of the INNOMATH project, in helping mathematically “gifted” students



## Electronic Guidebook of Methods and Tools for teacher facilitators

The “**Electronic Guidebook of Methods and Tools for teacher facilitators**” is the Output 3 of the INNOMATH project. This Output contains among others the outputs chapters “Analysis Report on Good Practices and Methods used to support gifted/talented pupils in schools” and the “Mathematics meets Industry in School – Knowledge to Innovation through Practice: Guidelines”

This Guidebook provides an alternative method of teaching and learning mathematics, which is expected to contribute to the improvement of the understanding and appreciation to the applications and problems solving in industry through mathematics applications. Pupils and teachers will also develop transversal talent in communication skills for the teaching and learning of mathematics.

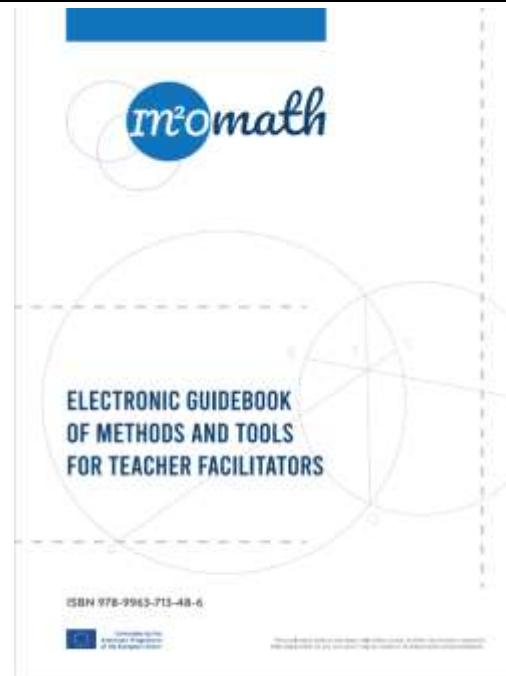
The part A of the Electronic Guidebook gathers good practices related to the education, development and stimulation of mathematically talented students and suggests a collection of definitions of a mathematically talented student.

The part B of the guidebook highlights good practices related to the education, development and stimulation of mathematically talented students by providing a collection of mathematics problem for supporting gifted/talented students separated into two age groups, under 14 and over 14 years old. The collection of good practices includes problems and applications, competitions and communication activities and related videos.

Through this Electronic Guidebook of Methods and Tools for teacher facilitators, industry will also be benefitted and be able to discover the creative thinking and potential of mathematically gifted pupils. A way to achieve this is though connecting the gifted students with the industry through a MID-Day (Mathematics in Industry Day). Therefore, the part C of the Guidebook provides the guidelines for planning and conducting a MID-day event.

This Output has been published and it is uploaded in the INNOMATH website. Click [HERE](#) to take a look!

Also, click [HERE](#) if you wish to see more linked material.



## Material Supporting Mathematically Gifted Students

Useful material for supporting Mathematically Gifted Students can be found in the project's website. You can also submit your own material to be added on the website.

Click [HERE](#) for more information.

### INNOMATH Course

The INNOMATH project has developed new methodologies for supporting gifted pupils in mathematics of age 10-18, which can be used inside and outside any school environment. A course will be organized to guide and provide the necessary tools for teachers to enrich their competences for supporting gifted pupils inside and outside the classroom environment. It will also provide support to teachers in dealing with diversity in the classroom, adopting collaborative and innovative practices and support schools to tackle disadvantage and to offer quality education, enabling success for all students, from the LOWEST to the HIGHEST end of the academic spectrum. It will include hands-on development of Learning Plans and more elements that teachers need in order to include the gifted pupils in the development of their Learning.

For more information regarding the course, click [HERE](#).

### INNOMATH Focus Group

With the completion of the project, a sustainability focus group was held, supporting the sustainability of the results of the project. Join us to evolve the methods developed by the INNOMATH project and co-create with the students.

Click [HERE](#), If you wish to become a member of the INNOMATH focus group.

### INNOMATH Course – Pilot testing

The training course of the INNOMATH project was pilot tested, in a hybrid form, during 27-30 July 2021 at Agros, Cyprus. The pilot test implementation of the course was successful and gave meaningful insight of improvements that could be made.

Unedited videos of the course and presentation can be found [HERE](#)



### Sustainability INNOMATH session

A sustainability INNOMATH session will be held to support the project after its completion. This session will be organized in the **Euromath** and **Euroscience** event on 27 June – 1 July 2022 at Thessaloniki, Greece.

For more information about the event click [HERE](#).

## MID Day Events

The MID-Day event is an actual Math and Industry Day, in which students tackle a problem set up by an industrial partner and adapted by the academics and teachers. It might be more an ideation, the refinement of an idea, than the full solution of a problem. This event was to be organized in all partner countries. Therefore, with the completion of the project also five MID-day events were implemented in Germany, Poland, Cyprus, France and Romania (Online).

MID-day in Germany. 20-21 September 2021



MID-day in Krakow, Poland 09 October 2021



MID-day in Romania 21 October 2021



MID-day at Agros, Cyprus 28th of July 2021

The MID-DAY was organized under the Erasmus+ project INNOMATH and STEAME SUMMER CAMP

You can also see video of the event [HERE](#)



MID-day in France on December 4<sup>th</sup> & 14<sup>th</sup> 2021



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