



**GAMMA** is the acronym of the Erasmus + project *GAME-based learning in MATHematics*.

### GAMMA Handbook for Teachers

The handbook we are writing as part of the GAMMA project aims to help mathematics teachers and teacher educators use Digital Game-Based Learning (DGBL) more effectively in their professional practice. It provides inspiring examples and activities, opportunities to explore and discuss DGBL with students and colleagues, and a comprehensive understanding of DGBL. The handbook contains an overview of the state of the art in learning and teaching with DGBL in mathematics and other chapters that are very practical and provide concrete suggestions for teachers. More specifically, there is a chapter about Educational Game Design which is especially intended for teachers who want to know more about how to design educational games themselves. Another chapter focuses on analyzing digital games to help teachers identify educational digital games that are appropriate for their own mathematics classrooms, while also providing examples of such games. The final chapter addresses guidelines for implementing DGBL in the classroom and suggestions from teachers who have experience using DGBL in their classrooms.

The handbook is being written by researchers and mathematics educators from four partner universities in the GAMMA project with input from the teachers participating in the project. Each chapter was written by one partner and reviewed by two of the other partners. The authors wrote the chapters in a cyclical process, and they met regularly (online) to discuss issues and connections throughout the book. The planning, writing assignments, revision process, form, and layout were led by the Amsterdam University of Applied Sciences, Faculty of Education, the Netherlands. All decisions about the content, production process, and layout are made collaboratively within the project team.

### Announcement of the Next Training Activity

The next learning, teaching and training activity will be organized live in Greece in June.

### Keep Our Project Progress on Track

All information, news, activities, and, project outputs, when prepared, will be freely available on the [project website](http://www.project-gamma.eu): <http://www.project-gamma.eu>. Follow us also on [Facebook](https://www.facebook.com/GAME-based-learning-in-Mathematics-GAMMA-104353051638): <https://www.facebook.com/GAME-based-learning-in-Mathematics-GAMMA-104353051638>

### .GAMMA eTwinning Project

With our Erasmus+ project well on the way, it was time to launch our eTwinning project as well. The project was started by two high schools from Croatia, Elektrotehnička i prometna škola Osijek and Srednja škola Markantuna de Dominisa Rab. Primary and secondary schools from Croatia, Poland, Denmark, Greece, Bosnia and Herzegovina, Turkey and Portugal are involved in this project. In total, 13 schools are participating in the project. We had our first meeting on Zoom. At the beginning of the meeting, each teacher briefly introduced themselves. After the presentation, a draft work plan was presented and discussed.



In this eTwinning project, we plan to create digital games using tools available on the Internet. At the beginning of the project, a survey is planned to be conducted to find out how familiar teachers and students are with game-based learning and gamification and to what extent they use digital games in the classroom. The results of the survey will be posted on Twinspace. We also plan to have a short presentation of the schools and places of all the partners involved in the project, we will have a contest to create a logo, we plan to have a webinar on game-based learning and gamification, students will prepare presentations on how a particular tool works or how games are created by means of those tools, we plan to have high-school students create games for primary school students, and we plan to hold a contest where primary school students play the games we created in the project. We have started a very ambitious project with high goals and we are confident that we will achieve them by the end of this eTwinning project.

