## TSG 29    Mathematics and creativity

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The content of "creativity" and "mathematics" includes a huge amount of concepts, methods, problems, tools, models, procedures, etc.

The main aim of this group is to give the floor for presentations and discussions on current theoretical and practical issues, related to mathematical creativity, from the perspective of students, teachers, educators, researchers, policy makers, parents and specialists in different subjects, areas and media.

The focus of the group will be on presenting:

- general issues related to concepts and interactions between them such as: mathematical creativity, giftedness, creative products, processes and environments, motivation and stimulation, identifying programs and models, educational policies, parents and society;
- student issues related to providing possibilities for students' mathematical creativity, examples, successfully applied educational models and examples of good practices.
- teacher issues related to traits, knowledge, skills, competencies, creativity, professional development and the teacher's role as facilitator.
- environmental issues related to mathematical problems, problem solving and problem posing, specific theories of learning and

methods of instruction, curricular and extracurricular, teaching and scientific materials, journals and books; communication, information and computer technologies; audience and performance of students' mathematical creative products.

The papers will be published in renowned books or journals.

The group will offer possibilities for presenting papers, books, journals, websites, posters, etc. and provide in addition possibilities for publishing students', teachers' and researchers' creative results.

One of the important activities will be the collection of new projects ideas, challenging mathematical problems, educational cases, information about specialists in mathematics creativity, and exchanging information.

The group will continue to develop the ideas of the International Group for Mathematical Creativity and Giftedness, an ICMI Affiliate Organization; DG2 Creativity in Mathematics Education, ICME12, TSG3/TSG6/TSG4 Activities and programs for gifted students; ICME12/ICME11/ICME10; DG9 Promoting creativity for all students in mathematics education.