



European Mathematical Society  
www.euro-math-soc.eu



www.euromath.org

**EMS**  
**Mathematics Journalistic Article Competition**  
**MJAC-2021**  
*For School Students of age 10-19*

### Framework - Aims

1. The European Mathematical Society (EMS) announces a competition for writing a journalistic expository article of philosophical reflection, investigation and expression of ideas on the subject:

**“The Role of Mathematics in STEAME Education”**

(STEAME: Science, Technology, Engineering, Arts, Mathematics, Entrepreneurship)

2. The article will be of an exploratory and argumentative type and it is expected by the participants in the competition to refer and support/document their ideas and claims concerning the topic. They may refer to the role of mathematics in STEAME, to its framework as a way of thinking and communication, to its applications and catalytic role in other subjects and to present documented positions on the role of mathematics in the development of STEAME learning activities.

### Competition Aims

3. The participants in the competition are encouraged to provide elements and/or arguments (or counterarguments), with the proper support or documentation, explaining **the horizontal role of mathematics in inquiry based and project based learning**. In this context they could refer to need of STEAME education in the Education Systems, the necessary infrastructures to implement such activities, advantages and problems, demonstrating a wide range of parameters that support the realization of STEAME education.
4. The participants in the competition are encouraged to provide elements and/or arguments (or counterarguments), with the proper support or documentation, explaining **the value and importance of Mathematics in STEAME Education**.
5. The participants in the competition are encouraged to provide elements and/or arguments (or counterarguments), with the proper support or documentation, explaining **how Mathematics is represented and what is its role in the innovation process through problem solving and applied STEAME projects**.



6. The participants in the competition are encouraged to provide evidence, with the proper support or documentation, explaining that mathematics is **present in all STEAME Education Activities** and it is widespread and used for a broad range of topics like Science, Technology, Engineering, Arts and Entrepreneurship.
7. Give to the participants the opportunity to develop communication skills through written and if they pass to the finals, through oral discourse.
8. Provide to the participants the opportunity to refer to the interaction of Mathematics with real life problems that STEAME projects give solutions.

## Terms and Regulations

9. Contestants must have been normally enrolled as students in fulltime primary or secondary school education on or after 1 October in the year 2020 or, in the case of home-schooled students, must not have received a secondary school diploma (or equivalent), and must be working toward such a credential. Minimum age by 1 October 2020 should be 10 years old and maximum age by 31 June 2021 should be 19 years old. Contestants may be citizens of any ERASMUS+ Programme or Partner country. With this in view and in the case that their article is distinguished, they may be asked for relevant documentation.
10. **The deadline for submitting articles is 27 May 2021**, until 12 noon and they should be submitted online in the English language ([CLICK HERE TO SUBMIT](#)) . Extension to the deadline may be considered by the organizing committee.
11. The articles should reflect the personal opinions and positions on the issue and they can be in agreement or disagreement with the view that is signified by the title. In case of reference to opinions or positions of other individuals or experts or studies, there should be an explicit and clear reference to the writer and the work. Using text created by third people, even with reference, should be at minimum. Each article should be the work of one and only one author. Each student participant in the competition may submit up to two different articles. Sub-title of the general theme “The Role of Mathematics in STEAME Education: *Message Subtitle*” may be used at the discretion of the author, especially to differentiate between two submissions by the same author.
12. Articles that seem to present opinions or positions of other individuals or experts, without the proper reference will be rejected. The references should be written at the end of the article and the extent of words will be part of the counting of the maximum number of words of the article. All article texts will be checked for plagiarism.
13. All article submissions will receive a confirmation reply in the email provided. Those who do not receive a confirmation within 3 days must contact the EMS Education Committee representative at the email [projects@cms.org.cy](mailto:projects@cms.org.cy) for confirmation.



14. The receiving authorities will check the eligibility of the contestant and will assign a code number to the article separating the text from the identifying data. These data will be kept away from the content of the article in order to secure anonymity before the article is sent for assessment.
15. Written articles should be between 800 and 1200 words and should be legible and clear. Photos or figures are not allowed. Articles should be submitted in the English language.
16. By submitting the article for the competition, the publication rights of the article are transferred to the European Mathematical Society/EMS Education Committee, which has the right to publish any of the articles (with a proper reference to its author).
17. The articles will be assessed by teams of assessors appointed by the EMS Education Committee and the organizing committee of EUROMATH. Based on the assessment, a short list (finalists) of the most outstanding ones will be formed. The assessment will be based on the following criteria:
  - (a) Content: in relation to the objectives set for the subject underdiscussion.
  - (b) Language: correct grammar and syntax in the use of the language that must be English.
  - (c) Structure and organization.
  - (d) Argumentation and persuasiveness.
  - (e) Innovation in content and presentation.For those invited to the finals, the above will form the 50% of the total score and the oral assessment during the finals, will form the remaining 50%. For both written and oral part all criteria are applied. All finalists will receive a special achievement certificate regardless of whether they participate in the finals or not. In case an oral examination is not possible due to circumstances of pandemic or otherwise, the final assessment will be made based on the submitted article.
18. The authors of the articles included in the short list of the outstanding ones (finalists) will be invited to present their articles and their positions in public during the EUROMATH 2021 conference, during 21-26 June 2021 in Paphos, Cyprus. These contestants will have to defend their positions in limited time and answer questions in front of a jury and in public. Finalists will need to arrange and cover their own travel and lodging expenses including visa if needed and register at the EUROMATH & EUROSCIENCE pupils' conference to be eligible to participate in the final round. On the basis of this oral presentation and final assessment, the following prizes will be awarded:
  - 1<sup>st</sup> prize: Diploma + Laptop.
  - 2<sup>nd</sup> prize: Diploma + Books
  - 3<sup>rd</sup> prize: Diploma + BooksAdditional prizes from sponsors may be announced at a later stage.

For any questions you may write to  
[projects@cms.org.cy](mailto:projects@cms.org.cy) and write in the email subject MJAC 2021.