

ORAL COMMUNICATION (RECREATIONAL MATHEMATICS)

Wonders of Recreational Mathematics: Activities Outdoor and Indoor - Let's Dive In!

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Abstract

Mathematics has been crucial since ancient times in shaping informed citizens and solving daily challenges. It serves as a fundamental tool for building knowledge in various academic fields, including engineering, medicine, biology, economics, among others. However, mathematics is frequently viewed as one of the most challenging fields.

In this talk, we will present several activities from the “Matemática Fora de Portas” project intended to inspire a positive perspective on mathematics.

Mathematics can be discovered everywhere - in a garden, in a park, in a street, at the beach, or even in a museum or theater. There are places specifically designed to experience

mathematics in everyday situations, but there are also mysterious locations where mathematical problems are hidden, challenging us to uncover them. This versatile approach allows for the exploration of mathematical concepts in various real-world contexts, making mathematics more engaging and relevant for everyone.

Our goal is to inspire and offer valuable insights and practical suggestions for engaging with mathematics that challenges, entertains, and delights us. We will explore the realm of outdoor and indoor mathematics, uncovering motivating examples and ideas. The goal is to embrace the myriads of activities that are both fun and educational. These activities are designed to stimulate the mind and provide satisfaction while exploring mathematical concepts. A strategic game or a nature walk filled with mathematical discoveries, this delightful fusion offers endless opportunities for learning and fun.

The project “Matemática Fora de Portas” is a bridge between the abstract world of mathematics and everyday life. When mathematics is applied to real-world situations, one gains the ability to see objects from multiple perspectives. Over 10,000 students from Porto and its surrounding areas have already experienced this.

So let’s dive in and discover the countless ways mathematics enriches our lives, both indoors and out.

References

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