



## Results of the Competition for Mathematical Experiment, 2025

We are pleased to inform you that the competition received works from all over Poland and from Hungary and Romania.

The works were assessed in two age categories:

- students of primary schools, grades VI-VIII,
- students of secondary schools.

The evaluation took into account compliance with the principles of conducting scientific experiments, originality of the researched problem, aesthetics and readability of the documentation.

The competition commission composed of employees of the Faculty of Mathematics of the University of Białystok and Primary School No. 11 in Białystok determined the following results:

In the category **students of grades VI - VIII of primary schools:**

**First place** goes to **Maria Szyrmer** from the 6th grade at the Primary School in Dobra for the work entitled **Does the yolk content in an egg depend on the species of hen?**

**Two parallel second places** take:

**Menyhárt Eszter i Tapasztó Eszter** from the 6th grade at Fényi Gyula Jezsuita Gimnázium, Kollégium és Óvoda, Miskolc, Hungary, for the work entitled **The die is rolled... Making and testing a “cheating” die in a game of Who Rolls Bigger?**

and

**Marcel Ciupek** from Primary School in Konstancin Łódzki for the work entitled **Effect of hydrogen peroxide concentration on the volume of the foam column in a chemical volcano.**

**Two parallel third places** take:

**Lena Romanowicz** from the 8th grade of Sportive Primary School in Supraśl for the work entitled **How many cuboids can be formed from  $n$  cubes?**

and

**Franek Miczejko** from the 6th grade of Sportive Primary School in Supraśl for the work entitled **How to pack the most cans into a box?**

**Distinctions** in this category receive:

**Szymon Romanowski** from the 6th grade of Sportive Primary School in Supraśl for the work entitled **Does height affect step length?**

and

**Pawel Nowak** from 8th grade of Primary School in Kielczów for the work entitled **How long is 10 seconds?**

In the category **students of secondary schools:**

**Two parallel first places** take:

**Furdui Daria-Octavia** z Emil Racoviță high school, Cluj-Napoca, Romania, for the work entitled **The growth of plants**

and

**Wiktoria Szczepanik** from the 4th Secondary School Emilia Szaniecka in Łódź for the work entitled **Mathematics in motion - heart rate and swimming pace.**

**The second place** goes to **Maja Nowak** from the 4th Secondary School Emilia Szaniecka in Łódź for the work entitled **Optimising Gear Ratios.**

**The third place** goes to **Oliwia Poleszak** from School Complex No. 2 in Białystok for the work entitled **Does the way candies are arranged affect how many we see?**

**Distinctions** in this category receive:

**Daminika Yukhnevich** from the 4th Secondary School Emilia Szaniecka in Łódź for the work entitled **Does a person's height affect their step length?,**

**Jakub Pudło** from the 4th Secondary School Emilia Szaniecka in Łódź for the work entitled **Candle Burning Speed Test**

and

**Marlena Fabińska** from the 4th Secondary School Emilia Szaniecka in Łódź for the work entitled **Math for Breakfast – Analyzing the Safe Landing of an Egg in the Frying Pan.**

### **Congratulations to all the winners!**

We intend to use the awarded and distinguished works to inspire children and teenagers to perform mathematical experiments - in the form of examples that mathematics can not only be learned from textbooks, but also used in various fields to solve various problems.

We will send the prizes by post; we will first contact the awarded Participants to determine where to send the prizes, and we will send the participation diplomas to the remaining Participants in electronic form.

So we stay in touch.

On behalf of the organizers of the competition Mathematics  
teachers from Primary School No. 11 in Białystok,  
Anna Rybak, Centre for Creative Learning of Mathematics, Faculty of Mathematics, University of Białystok