

National OUTREACH Activities

SwissMAP contributed significantly to maths outreach over Phase I & II and will continue to have a substantial impact on a national and international scale during Phase III.

2023 Highlights from our out-of-school learning structures

Junior Euler Society (UZH)

Approximately 350 schoolchildren participate every year in the Junior Euler Society (JES) directed by Anna Beliakova and Tatiana Samrowski. This year 46 JES participants won medals, including gold, silver and bronze, at various national and international Math Competitions.

The Prize Award Ceremony took place at UZH Campus Irchel on June 26, 2023.



Credit: Junior Euler Society (UZH): Prize award ceremony 2023

Math Youth Academy (ETH Zurich)

The ETH Math Youth Academy was established on a permanent basis at ETH Zurich and Kaloyan Slavov was appointed as its head.

Some participants shared their experiences:

"It was at the ETH Math Youth Academy where I really developed a joy for mathematics."

"Attending strengthened my decision to study mathematics at ETH. We discussed very interesting topics, and I learned how to structure mathematical arguments."

"I had no idea how much more maths had to offer beyond what we were taught in school, so when I heard about Math Youth Academy at ETH, I decided to visit once out of curiosity. It immediately sparked my interest, and during the year and a half I participated, my passion for problem solving skyrocketed."



ETH Math Youth Academy Playlist is available on our YouTube channel.



Credit: Scienscope-Exploratis

Mathscope (UNIGE)

Mathscope now shares a newly renovated dedicated space with other UNIGE Scienscope labs.

Exploratis

The Scienscope now hosts Exploratis, an installation which consists of two iPads and a large screen and is based on reconfiguration puzzles arising from ideas in geometry and topology. Players attempt to reconfigure puzzles while the graph of possible states is slowly revealed on the big screen. A player can play individually, race against someone else or collaborate with another person to find a common configuration.

Exploratis was developed in conjunction with the Luxembourg Science Center and was showcased at the Luxembourg pavillion at World Expo 2020 in Dubai.

The team behind this project (on the math side: Hugo Parlier and former SwissMAP science writer, Paul

Turner; and on the development side: Mario Gutiérrez and Reyna Juárez) have created a free app, Quadratis, with a selection of puzzles to be played on a smart phone.

For more information on Exploratis:



Escape Game

A new mathematical escape room, Leonhard Euler's secret workshop - has been installed. Created with the support of the Swiss Mathematical Society, this is an activity for groups of 3-6 adults or children from the age of 12.



Credit: Mathscope Escape Game