

# IMPACT REPORT

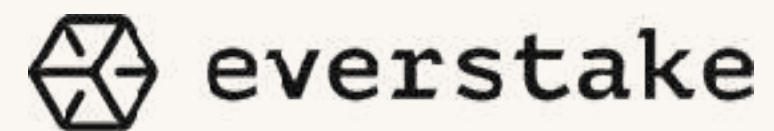
## Camp "Educational Collider"

Bulgaria, August 1-20, 2023

With the support of



ФОНД  
СЕРГІЯ ТОКАРЕВА



Implemented by



ONE  
UKR

TYSHA  
[ТИША]



The “Educational Collider” project is an initiative implemented by scientists, entrepreneurs, and governmental agencies of Ukraine to teach Ukrainian children (12-17 years old) technical thinking skills necessary for their successful future. The camp participants were children from families of military personnel whose parents were missing in action. This year, the first camp was held at the complex Sea Dunes in the village of Shkorpylivtsi, Bulgaria.

The project brought together teachers and scientists under the leadership of Alexei Boyarsky, a professor of physics at Leiden University in the Netherlands. The team has developed a physics curriculum aimed at increasing motivation in studying STEM. Special emphasis was put on integrating real-life examples of how to apply technical thinking in various fields. We also invited prominent Ukrainian tech company founders who shared their personal stories of how technical education allowed them to succeed in life. During the course of the camp, we were able to observe and measure the shift in motivation and interest in studying science, and we will elaborate further in this report on what we have achieved. As a next step, all the children were invited to continue their educational journey through the online course by UA Physics Online School.

In addition, we implemented a token economy system to encourage children to participate actively in the learning process. The most active participants were rewarded with prizes from our partners.

A significant part of the camp was taken up by psychosocial support organized by the team of the NGO TYSHA. The camp participants are experiencing the trauma of losing one of their parents, and we paid particular attention to their psychosocial support. The program also included English classes, yoga, CrossFit, dancing, talent shows, and movie screenings.

A special partner in this project was the Coordination Unit for the Treatment of Prisoners of War, which helped organize the processing of applications from families, and the search for guardians, and ensure the safety of the transportation and stay of children at the camp.

We have had a positive impact on increasing the motivation of camp participants to learn. In this report, we will share the numbers that reflect these changes.

We express our sincere gratitude to everyone who contributed to the implementation of this camp and plans to continue working with us to create a future for the children of Ukraine.

Sincerely yours,  
Tomorrow Camp team



**Oleksiy Boyarskiy**  
Creator and Organizer of the Camp



**Yuliia Karnas**  
Organizer of the Camp

# Team & Donors



**Yuliia Karnas**

Organizer, Managing Director of OneUkraine gGmbH, co-founder of the NGO "TYSHA"



**Yevheniia Cheypesh**

On-site Coordinator, volunteer, scientists and researcher



**Oleksiy Boyarsky**

Organizer, professor of physics at Leiden University



**Hanna Kolesnichenko**

Managing Director of the NGO "TYSHA", operations and reporting



**Victoria Tsymbaliuk**

Organizer, and representative of the Coordination Unit for Treatment of Prisoners of War



**Olga Shapovalenko**

Project Manager

ФОНД  
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Діти Героїв  
Благодійний фонд



# Children's Feedback

72% - enjoyed the location

67% - enjoyed the classes and subjects

60% - enjoyed the leisure time

**Katya, 15 years, Ivano-Frankivsk,** ...

The camp is hard to forget. I really liked it, I made lots of friends. I really enjoyed yoga.

**Valeria, 15 years, Chernihiv region,** ...

I enjoyed English classes, Psychology, and swimming in the sea.

**Zahar, 13 years, Mariupol,** ...

Most of all I liked the sea, the swimming pool, and physics.

**Daniil, 15 years, Poltava,** ...

I really enjoyed physics classes, especially nuclear physics.

**Maria, 15 years, Kherson,** ...

I made lots of new friends and received a lot of support. I definitely want to participate in the next camp.

# Camp in numbers



177

children who participated in the camp



20

days at the camp



63

hours of training



38

hours of leisure



37

people in the team of teachers, guardians, and organizers



15

motivational speakers

# Camp in numbers



70%

of children enjoyed  
Science classes



82%

of children enjoyed  
English classes



64%

enjoyed studying  
Psychology



20%

more motivation to learn  
English



10%

more interest in studying



15%

less sadness

# Feedback from Parents

## Alla, Korostyshev, Zhytomyr region

Thank you for the organization of this amazing camp! You have achieved a great outcome. It requires a lot of effort to organize such an event and ensure that teenagers are united together.

## Inga, Mukachevo, Zakarpattia

Dear organizers and donors, I'm very thankful for the rest of our children. Let the Lord bless you.

## Liudmyla, Dolynska, Kirovohrad region

Dear organizers and sponsors! Thank you very much for our children's vacation and for receiving interesting information about the development and life of our children. Emotions are overwhelming! We can only talk about how cool it was, but it ended quickly! May God grant you and your families health and prosperity, and may the goodness given to children be returned a hundredfold. Good luck to you!!!

## Dmytro, Kharkiv

Our family is very grateful to you for organizing the vacation! For the attention to children and positive emotions that everyone lacks now! THANK YOU!!!



## Camp Components

- Science
- English language
- Psychology
- Leisure



## Science in numbers



38

hours of science



70%

of children enjoyed attending classes hours of classes



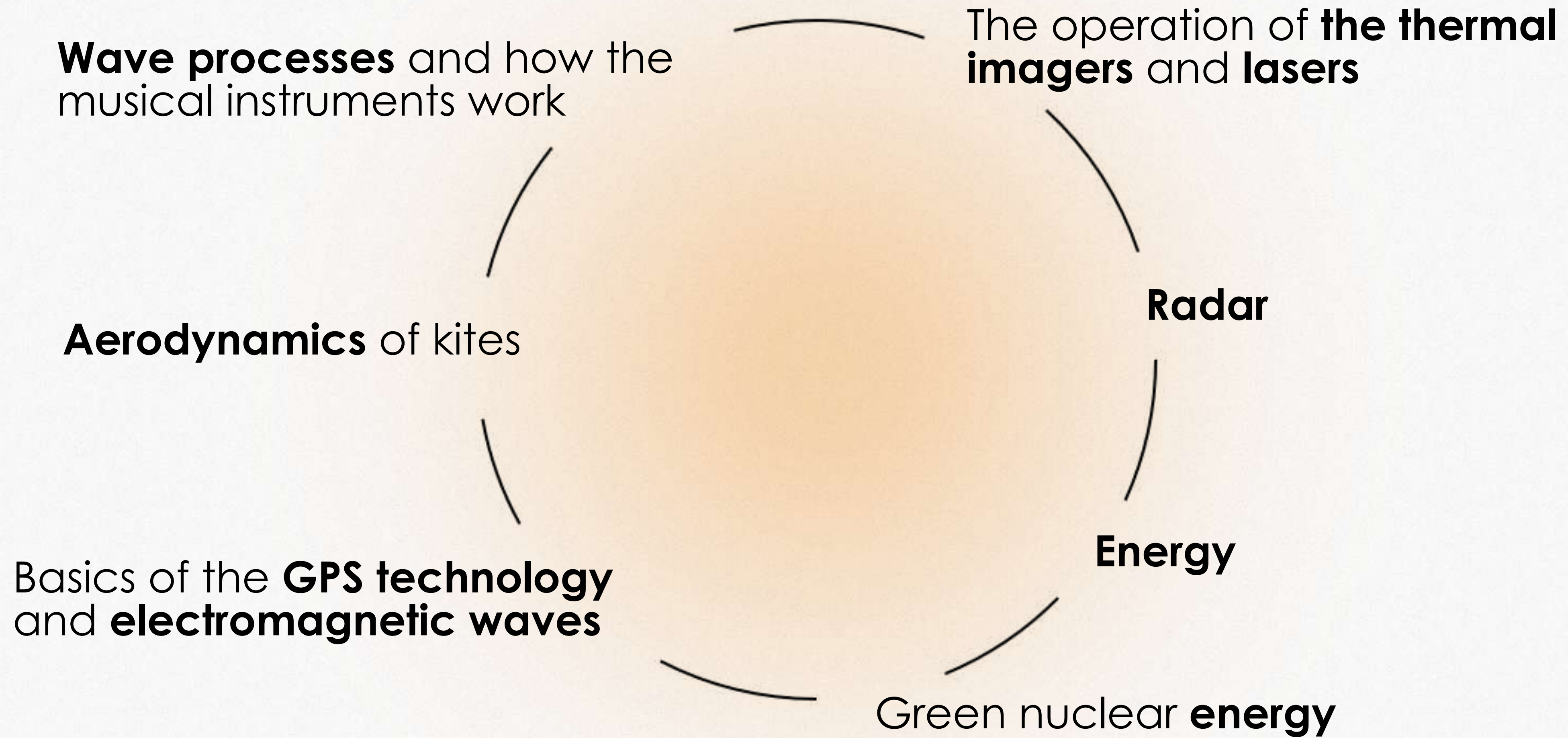
50%

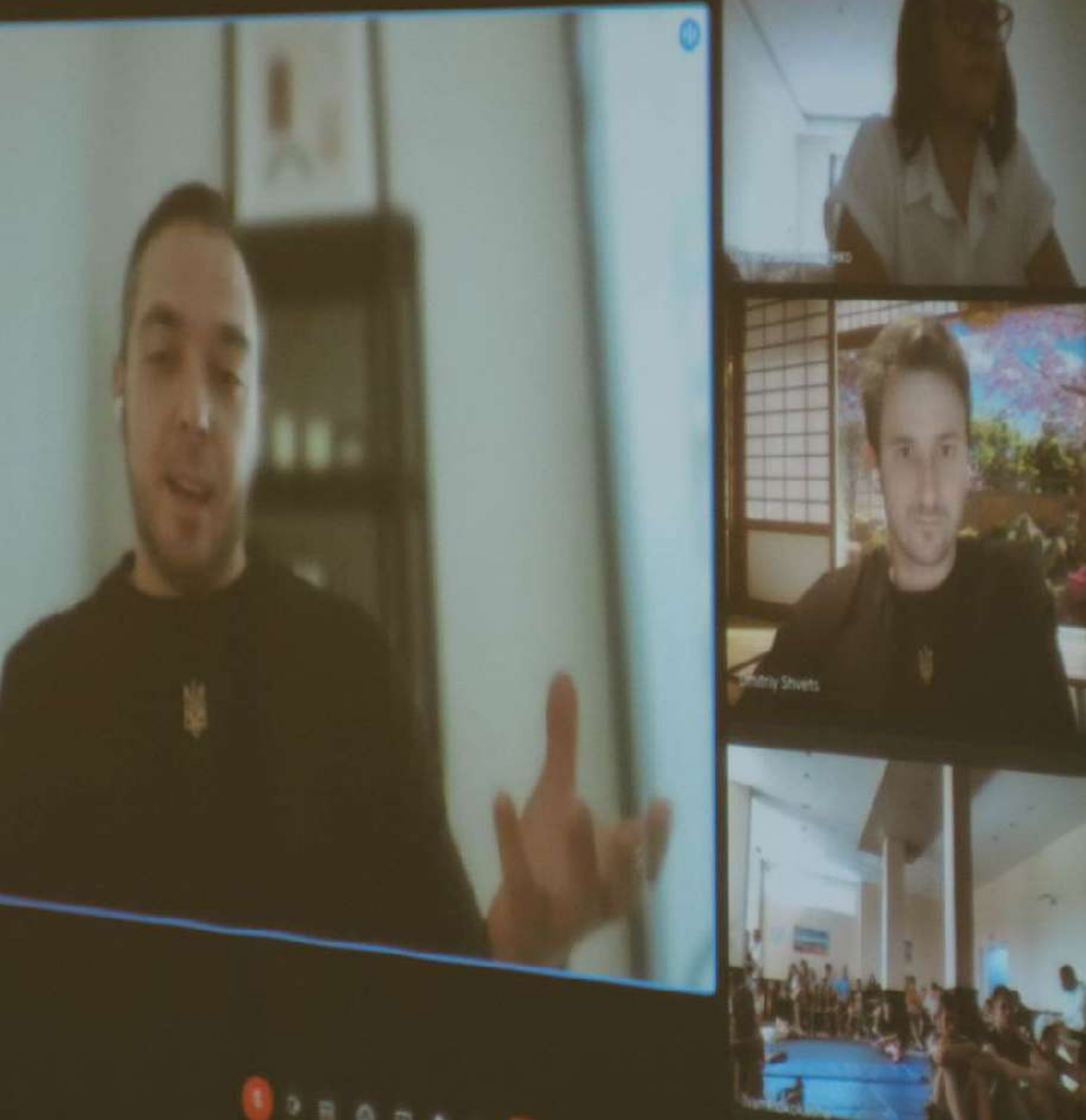
increased involvement of children at the end of the camp

## Program Highlights

- The focus is to raise the level of interest in science in general.
- The training topics focused on physical phenomena and processes that children can observe **in real life**.
- The children studied physical phenomena in practice, for example, they studied the aerodynamics of the kites, crafted the kites themselves, and learned how to operate kites.
- The teachers were joined by well-known entrepreneurs who told and shared their success stories, with an emphasis on how technical education allowed them to succeed in life.

The children studied:





## Motivational lectures from the founders of tech companies

We organized lectures with founders of tech companies to share how technical thinking can help children succeed in life

- Igor Karpets is a top sales executive in the IT industry
- Volodymyr Panchenko is a founder of web3 startup DMarket and Senior Vice President of Mythical Games
- Dmytro Shvets is a co-founder of Reface
- Anton Weisburg is the CEO of Datrix



## Teachers



### **Maksym Pashko**

teacher of the highest category, teacher-methodologist, Honored Teacher of Ukraine, physics teacher at the Kherson Physics and Technology Lyceum and the Ukrainian Physics and Mathematics Lyceum, head of the Physics Camp and [UAPhysics Online School](#).



### **Artem Oliynyk**

scientist (theoretical physicist), physics teacher at the Kherson Physics and Technology Lyceum and the Ukrainian Physics and Mathematics Lyceum.



### **Oleksandr Mieshkov**

PhD in Engineering, teacher of the highest category, physics teacher at the Kherson Physics and Technology Lyceum.



### **Oleh Orlianskyi**

scientist (theoretical physicist), physics teacher at the Kherson Physics and Technology Lyceum and the Ukrainian Physics and Mathematics Lyceum.



### **Iliia Helfhat**

PhD in Physics and Mathematics, Honored Teacher of Ukraine.



### **Ivan Ridkokasha**

Bachelor of Science in Physics and Mathematics, Master's student at Leiden University, teacher of the Motion Olympiad Physics Club.



### **Oleksii Mykulenko**

postgraduate student in theoretical physics at Leiden University, member of the SHiP and SND@LHC at CERN.



### **Maria Marynchenko**

Bachelor of Science in Physics and Mathematics, Master's student at the University of Leiden and Taras Shevchenko National University of Kyiv.



### **Mark Yugai**

Master of Science in Physics and Mathematics, physics teacher at the Kherson Physics and Technology Lyceum.



### **Hennadiy Melanich**

Bachelor of Science in Physics and Mathematics, Master's student at Taras Shevchenko National University of Kyiv, head of scientific club Motion.

Science English Language Psychology Leisure

Plans for the next camp:

**More experiments!**

## English in numbers



63 %

liked the English classes



18%

more motivation to learn English



15%

less skepticism about learning English



10%

less anxiety to speak English

## Program Highlights

- **A variety of formats:** Teachers used various activities in a game format that can be easily adapted to groups with different levels of English: tangled talks, jeopardy, bamboozle, charades, bingo, “fill in the gaps”, broken phone (using sentences), and many others
- **Communication with native speakers:** The children really enjoyed the opportunity to talk to foreign guests of the camp.
- **Switching formats:** Teachers switched between group work, pair work, and individual activities.
- **Quest:** The quest format was a great way to finish the camp and a great opportunity for team building.

## Teachers



**Khrystyna Berezan**

English teacher at a school White Collar



**Svitlana Tsygankova**

English teacher



**Tetiana Kondratenko**

English teacher



**Solomiya Demberetska**

English teacher



**Solomiia Demberetska**

teacher of English for adults at EnglishHub

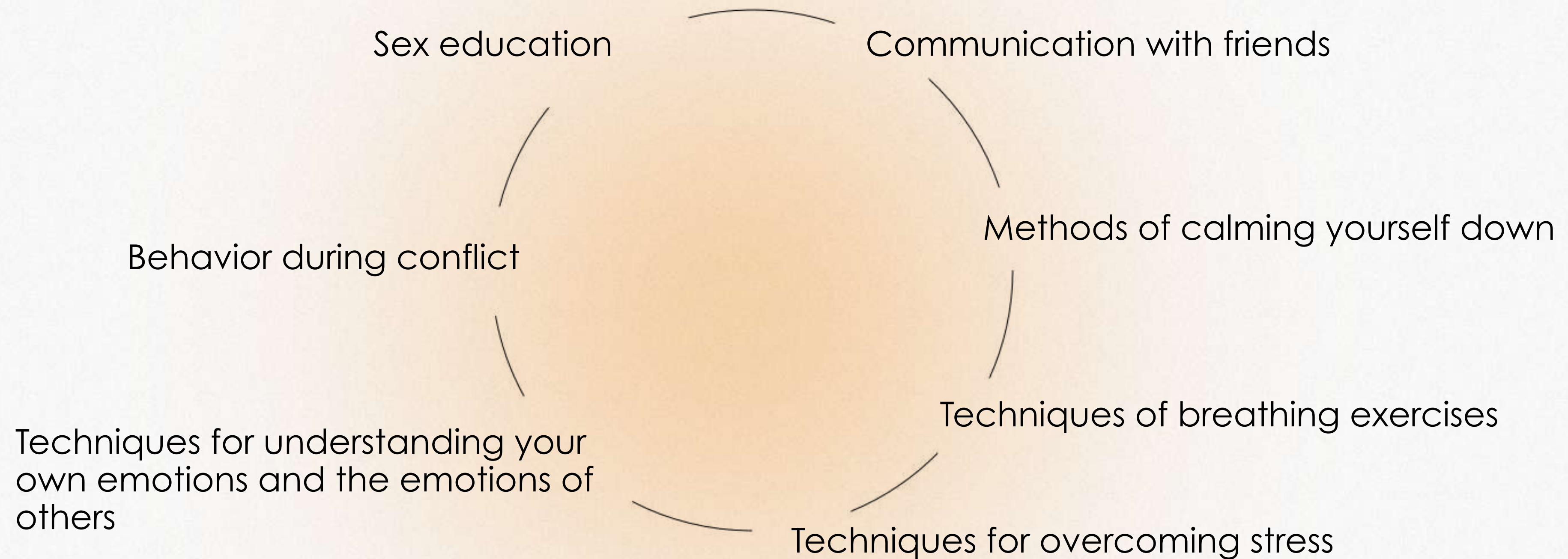
Plans for the next camp:

# More communication with native speakers





The goal of the psychosocial support was to conduct group sessions aimed at building psychological resilience, exploring one's own values, developing emotional regulation, and creating supportive social connections. The topics and activities that were covered during sessions with psychologists:



In addition to group activities, psychologists provided psychosocial support in an individual format. The main requests were about self-confidence, anxiety, grief and loss of a parent, bullying at school, etc



26

psychosocial activities



50%

less anxiety



21

individual sessions



15%

reduced feelings of fear and anxiety



15%

less haste

## Psychologists



### **Anna Petrova**

psychologist and psychotherapist in training in transactional analysis, online manager of psychologists.



### **Shevchenko Olena**

practical psychologist, psychoanalyst



### **Kasyanenko Olena**

clinical psychologist who uses art therapy and transactional analysis in her work.



### **Pikula Victoriia**

practicing psychologist, hypnotherapist, and certified trauma therapist



### **Anna Gagarina**

practical psychologist, psychologist at a secondary school in Cherkasy region.

Science English Language Psychology Leisure

Plans for the next camp:

**More individual  
consultations**

## Leisure&Health

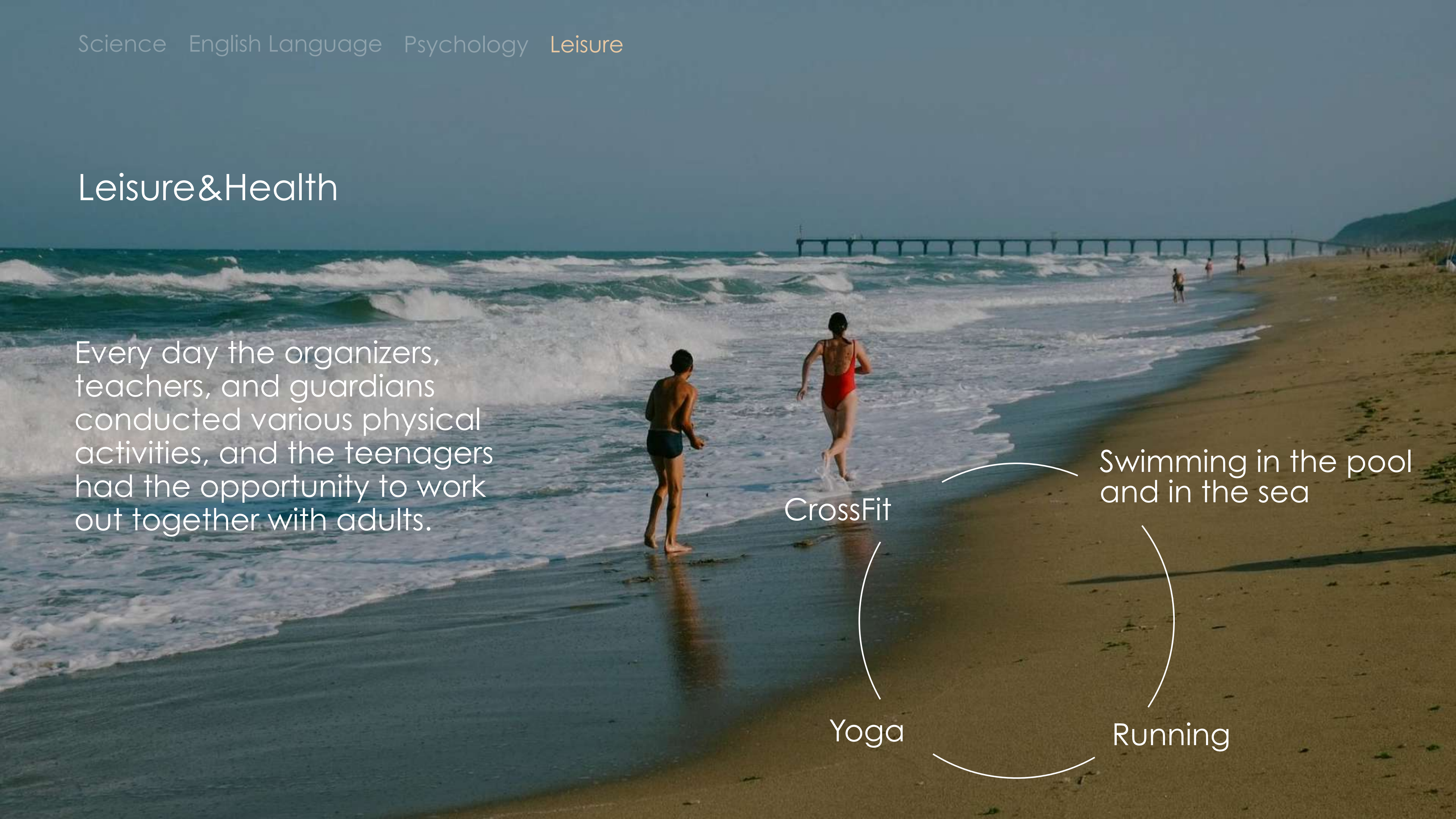
Every day the organizers, teachers, and guardians conducted various physical activities, and the teenagers had the opportunity to work out together with adults.

CrossFit

Swimming in the pool and in the sea

Yoga

Running





## Team support

**For psychologists:** 4 sessions with a team of psychologists and a coordinator. The sessions were for discussing issues that arose during the interaction of psychologists with children, accompanying persons, and parents, and providing psycho-emotional support to psychologists.

**For accompanying persons:** 2 support sessions: offline and online. These activities allowed the participants to stabilize their emotional state, share their experiences, and gain important knowledge about the psychology of adolescence. In addition, 6 individual consultations with psychologists were held for the guardians on specific issues.

**For organizers:** 5 individual sessions with a psychologist. The purpose of the sessions was to support the psycho-emotional state of the organizers and provide additional tools for better understanding and ecological communication with categories of people who have experienced traumatic events.

### Why is it important?

Supporting the psycho-emotional state of the project team is an important element of creating a safe space for children's recreation and development and maintaining the project's operational efficiency

# Support for parents

## Why is it important?

Most of the parents of the participating children are women with a definite and indefinite loss. As the children in the camp learned new skills of resilience, non-violent communication, and techniques for understanding their emotions during such a difficult time in their lives, it was important to provide parents with similar skills to ensure that they could effectively support their children when they returned home.

## Features of the audience

100% of the session participants are women.

For 62%, it was the first experience of psychological assistance.

The issues that concern parents the most

- How to find a common language with a child (45%)
- How to support yourself (40%)
- How to negotiate with a child (38%)

## How did we do it?

3 online workshops on the following topics: "New normal: emotions and relationships", "How to support yourself?", "What am I feeling now? The spectrum of my own emotions"

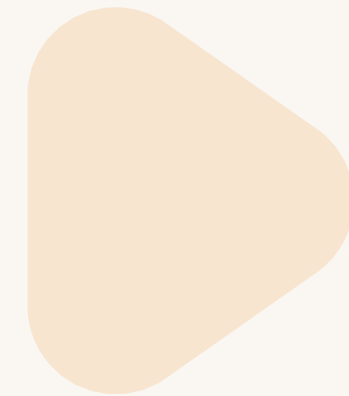
## What are the results?

- the need for psychological support in an individual format for several women was identified
- all parents were gathered in one information channel for further communication about additional psychology activities after the camp
- women were invited to join offline "quiet meetings" organized by the NGO "TYSHA" in Mykolaiv, Zaporizhzhia, Kharkiv free of charge
- women responded to the format of dialogue and active discussion

# Motivational system in the camp

## Problem

Low class attendance and student engagement.



## Solution

A motivational system of **tokens** - special paper "tickets" that students received for attending classes and active participation. The tokens could be redeemed for rewards at the end of the camp.



## The result

By the 3rd week of the camp, the children's motivation had increased significantly - the number of children who stayed until the end of the classes and actively participated in the discussions increased by 50%.







## Motivational system in the camp

### Awards

The children who collected the most tokens were rewarded with the following gifts:

- certificates to the Rozetka e-store and Kasta
- gym memberships

All the children were invited to continue studying physics within the project **«Physics online school»**, where they will be able to continue their education in STEM.



## Future plans

Based on the feedback of the teachers involved in the project we are already working on polishing the next camp. Learn how!

- Providing additional training for teachers and guardians on the specifics of communication and the needs of different categories of children before the camp
- Creation and dissemination of additional **information materials on Science** to increase children's interest in science
- **Involving parents in psychosocial activities** a week before the camp to reduce anxiety for children in the first week
- Searching for **partners for collaborations** in science, entrepreneurship, and healthy lifestyle
- Developing a mix of playful and more intensive learning activities so that children can choose **classes according to their level** of interest in the subject
- Conducting **excursions**
- **Psychosocial support** for the next 1.5 months for parents



Wait for the next one...



Put the life on play

**Do you have any questions or suggestions about the camp?**

Write to Yulia at [julia@oneukraine.com](mailto:julia@oneukraine.com)

