

Tech for Kids Breakthrough 2022



Phnom Penh, Cambodia
04 October 2022

Acknowledgement

On behalf of Tech for Kids Academy, we would like to thank the organizing team, mentors, trainers, volunteers, and partners for making the first national celebration event successful.

We would also like to especially thank the Ministry of Education Youth and Sports (MoEYS) for their support toward Tech for Kids Breakthrough so far, and be bridge to the students in public school and social media to make the program more impactful. Besides, we would like to thank our venue sponsor, The Factory Phnom Penh that provides a suitable venue for our national celebration event, and our media partner, The Multimedia.

Last but not least, we would like to congrats and give a big appreciation to participants, especially parents that make this impact even greater.



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Executive Summary

Tech for Kids Breakthrough is a 6 weeks program that is prepared by Tech for Kids Academy with full support from the Ministry of Education, Youth and Sports (MoEYS) for students who are the age of 13 - 18 years old. This program is created for the purpose of encouraging students' participation in science and design by creating a 90 seconds video of explanations about interesting scientific ideas that are complicated in a very simple way and prepared for global submission. The goal is not to establish scientists or students who will come up with new theories, but rather for them to come up with a creative way to understand concepts/theories and spark their interest in science. At Tech for Kids Breakthrough, students come here to learn, think outside the box, and implement. The topics that are chosen from the global stage are Physics, Mathematics, and Life Science.

There were 123 applications and 30 students were selected through the screening of applications. After the interview stage, there were 24 students who successfully passed to enter the program. With selected participants, we divide them into groups with the same topic that is chosen by the students. After grouping, in total there were 8 groups of subjects based on our mentor-to-team ratio of 1:3.

After 6 weeks of mentoring with deep and insightful discussions with mentors, there were 19 videos that were successfully submitted to the global stage. After the global submission, Tech for Kids Breakthrough also initiated the half-day national event where 3 of subject-based video winners and 1 popular vote video winner will be announced.

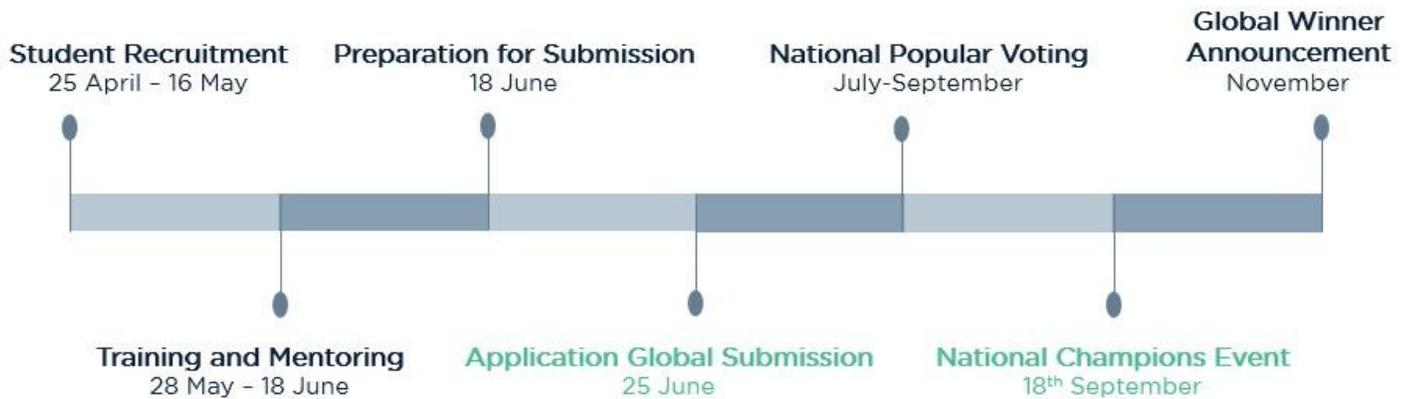
Tech for Kids Breakthrough got venue support from The Factory of Phnom Penh.

Link to Video of Cambodia Students: <https://bit.ly/Breakthrough-Video>

Applicant selection process



Timeline

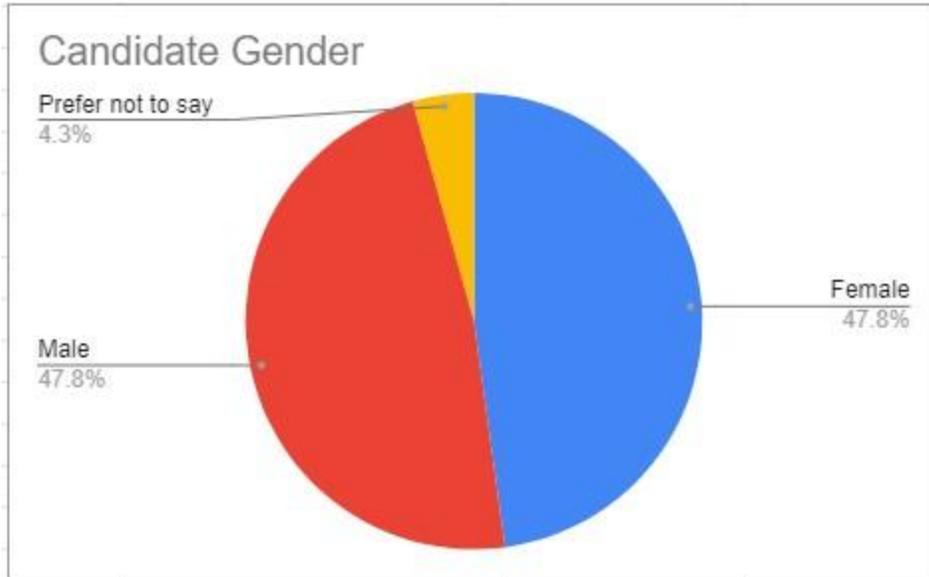


List of the Selected Candidates

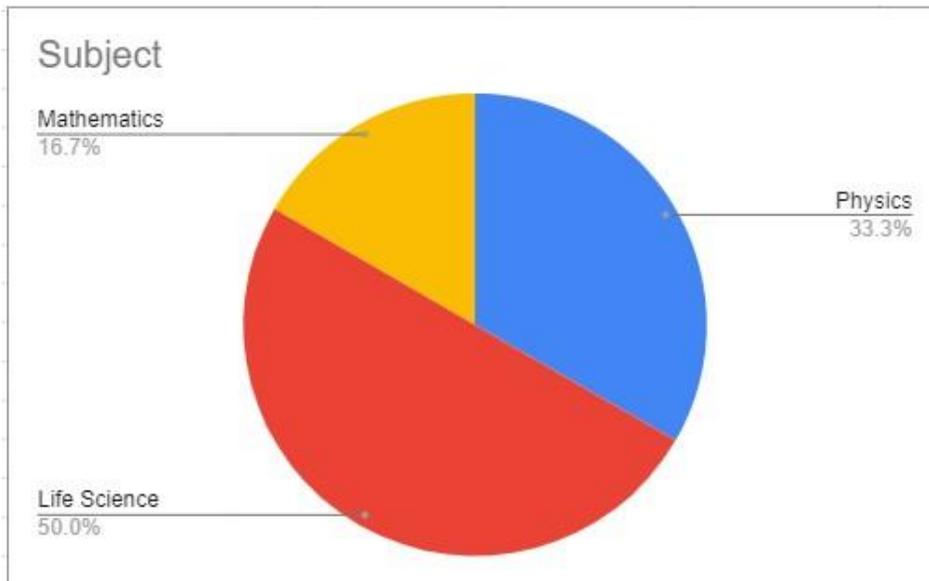
Total Students: 24 students (Female: 11)
From School: 17 schools (7 from private school)
From province: 4 students

No.	Full Name	Gender	Grade	School	Peimary Area	Topic
1	Panhasith So	Male	10	Smart Kid	Physic	Newton's 3 Law of Motion
2	Rith Nyvisalsnuk	Male	11	Russey Keo High School-Phnom Penh	Physic	Virtual Particles in Quantum Field Theory
3	Samuel Pheak	Male	8	New Life School - Phnom Penh	Physic	Galaxy and Star
4	Rady Pheanoukma	Male	8	Preah Sisowath High School New Generation School (NGS)	Physic	Aerodynamics
5	Ourn Sokhak Mallika	Female	8	Sovannaphumi School-TuolKork	Physic	Visual Doppler
6	Seng Chanlyna	Female	12	Hunsen Angtasoam High School	Physic	Gravity
7	Out Seyha	Male	9	Beltei	Physic	Shadow
8	Isomura Takumi	Male	10	Preah Sisowath High School - Phnom Penh	Mathematic	Logic
9	Chea Kuyseng	Male	9	New generation school (Preah Sisowath)	Mathematic	Golden Ratio
10	Kimsan Ahn	Male	7	ELT - Phnom Penh	Mathematic	Pythagorean Theorem
11	Sun Sodavina	Female	10	Preah Sisowath High School (NGS) - Phnom Penh	Life Science	Acid Rain Effect pH of Soil
12	Kulapati Ly	Male	11	Preah Sisowath High School NGS- Phnom Penh	Life Science	Microfluidic Devices
13	Cheat Liza	Female	11	ICS International school	Life Science	How does motivation related to homeostasis

14	Ty Mean Kuong	Male	9	Chak Angre High School	Life Science	Melenin, the Brown Pigment on Skin
15	Kao Menghorng	Female	11	Hun Sen Peam Chikang Highschool	Life Science	Fertilization and Genetic
16	Vuthy Kolabsunjhestha	Male	11	Toul Tom Poug	Life Science	Climate Change
17	Tann Sunlay	Male	10	Tisa school	Life Science	Ancient Viruses
18	ង៉ៃត សុគន្ធជាវាឡី	Female	12	Phsar Deum Thkov high school - Phnom Penh	Life Science	Somatic Cell Nuclear Transfer (SCNT) – Reproductive Cloning
19	ស្រែង កិញនា	Female	12	Phsar Deum Thkov high school - Phnom Penh	Life Science	Covid Rapid Test
20	Polita Choup	Female	12	CIA First- Phnom Peng	Life Science	Human Body, Genes
21	Soreaksa Bung	Female	8	CIA First - Phnom Penh	Physic	Electromagnetic Stectrum
22	Hieng Dara	Male	12	Kompong Highschool	Mathematic s	Polinomial Equation
23	Ly Kimsrorng	Female	11	Keat Chhon High school-Kratie	Life Science	
24	Khut Sokuntheary	Female	12	Sovannaphumi school	Life Science	Climate Change



1.1 Candidate Gender



1.2 Primary Area that students choose

Mentors List

No.	Full name	Gender	Mentoring On	From
1	Phannaro Nhem	Male	Life Science	Sungkyunkwan University
2	Chamroeun sopenha	Female	Life Science	Limkokwing university
3	KANHCHANA LY	Female	Life Science	Southern University of Science and Technology
4	Soeurng Sokuntheaream	Male	Video Editing	Cambodia Academy of Digital Technology
5	Phan Sreynet	Female	Video Editing	PSE Institute
6	Panha Eay	Male	Video Editing	Thailand
7	Mang Rathanakmealea	Female	Math	Liger Leadership Academy
8	Menghang Hean	Male	Math	Paragon International University
9	Sodanith Phuong	Male	Physic	Southern University of Science and Technology (SUSTech)
10	Hun Ketya	Male	Physic	Institute of Technology of Cambodia
11	Oudomdavid VUTHY	Male	Physic	

National Event

Beside preparing students for global submission, Tech for Kids Breakthrough 2022 also hosts a National Event held on the 18th of September 2022 at The Factory Phnom Penh from 13:00 till 17:00. There were around 50 participants joining the event coming from different provinces.

The purpose of hosting this national event is to encourage students that have submitted the video to the global stage a chance to win a prize. It's also a chance to spread awareness of our program to the public and inspire young students to involve more in science.

The videos submitted to the global stage by Tech for Kids Breakthrough 2022 's participants were carefully scored by 3 judges living abroad. During the National Event, we also announced the winner, each receiving 300,000 riels.

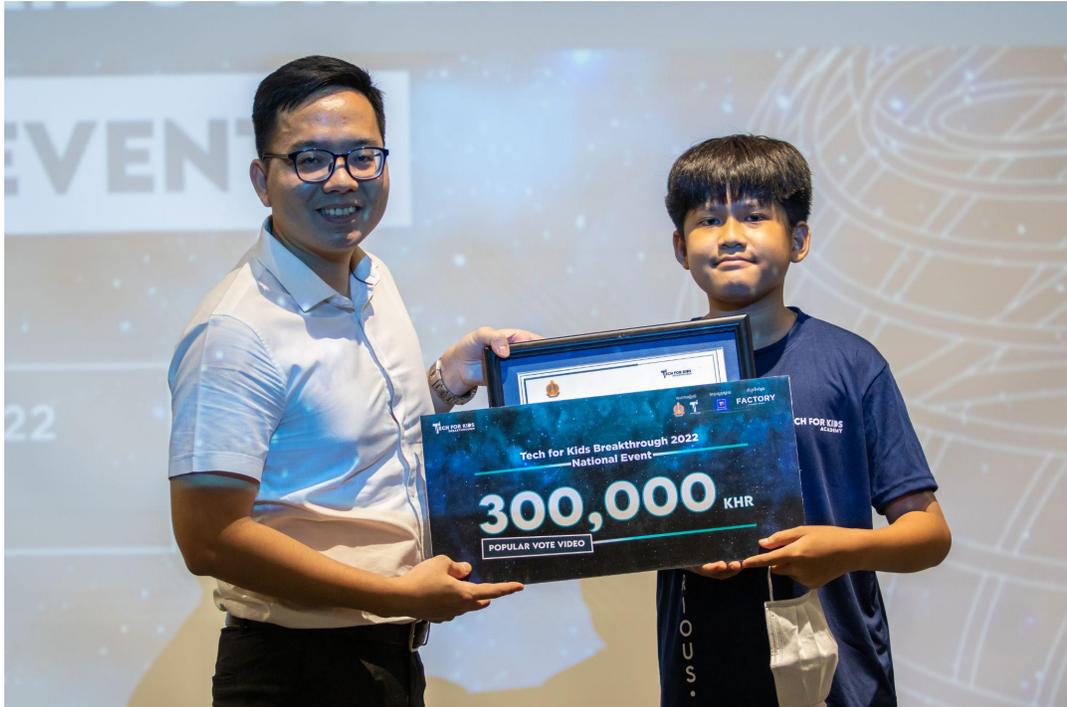
Categories	Full Name	Gender	City / Province
Physics Winner	Rith Nyvisalsnuk	Male	Phnom Penh
Life Science Winner	ដឺត សុគន្ធារាណ្ណ	Female	Phnom Penh
Mathematics Winner	Kimsan Ahn	Male	Phnom Penh
Popular Vote Winner	Rady Pheanoukma	Male	Phnom Penh



1.1 Mentoring Session



1.2 Top Score Award



1.3 Popular Vote Award



1.4 Panel Discussion

Reviewed and Approved by:

- Mr PIDOR Lydet, CEO & Founder of Tech for Kids Academy

Prepared By:

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7. Ms. Luy Sereypahna
8. Ms. Ros Sereyvann
9. Mr. Peang Bunyith
10. Mrs. Chheoun Mary
11. Ms. Chanchem Bormey
12. Ms. Meng Ornsopheara