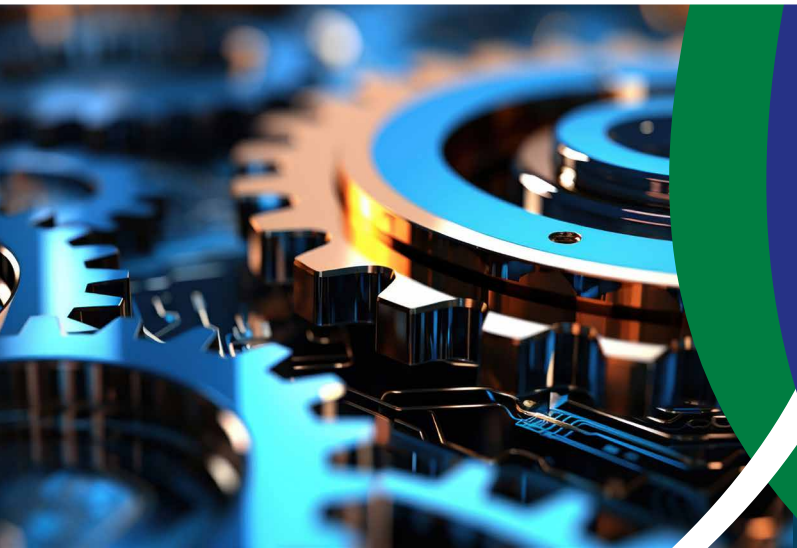
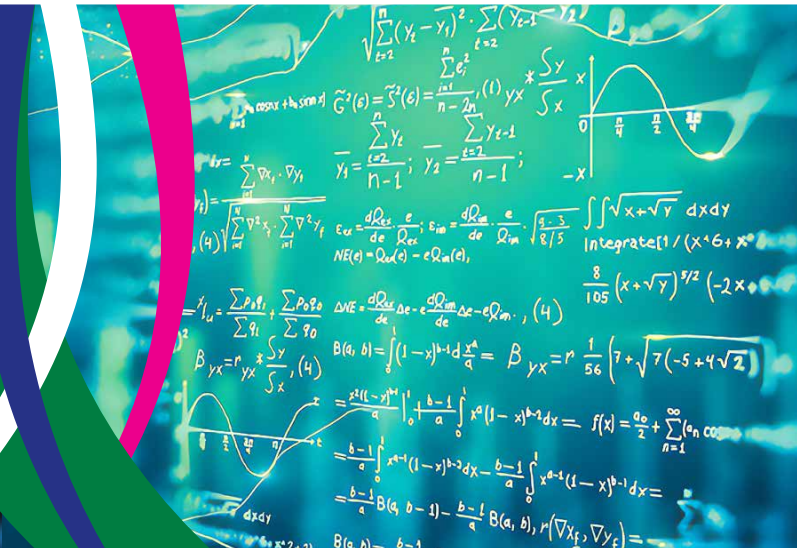
Haileybury Almaty

Summer STEM camp

2024





A very warm welcome to the Haileybury Almaty Summer STEM camp 2024!

I trust that you will begin to get a sense of the quality of opportunity that we offer, as well as a sense of the ethos and atmosphere which make Haileybury Almaty Summer STEM camp such a special place.

At the Camp we help kids to discover talents, interests and values that not only prepare them for the next stage of their education, but which stay with them for life.

Our Summer programme will deepen kids' knowledge in new and exciting fields while making friends and having fun along the way.

Simon Mills, Headmaster

Haileybury Almaty School is delighted to announce the opening of a unique summer camp!

Children will dive in the exciting world of Science, Technology, Engineering and Mathematics (STEM) implementing interesting projects, experiments and research work. They will have a new topic each week, which will help young scientists to expand their STEM knowledge and skills.

The children will also have an intensive English course and Fun Maths sessions.

Apart from academic classes, participants will be doing some creative activities, participating in sports events, excursions and various outdoor activities. Our school canteen will offer balanced three meals a day so that children stay active and healthy all day.

Age: for children from 6 to 13 years old.

Dates: June 24 to July 26 (5 seasons).

Place: Haileybury Almaty, Al-Farabi avenue, 112.

Time: from 9 am to 4 pm.

Language of instructions: English.

Meals: breakfast, lunch, snacks.

Cost: 150,000 KZT per week.

To register, fill out the registration form.

Registration form

For more details, feel free to reach out to our camp coordinator Anna:

Email: *akir@haileyburyalmaty.kz*

WhatsApp: +7 (701) 757 3678 (Anna)

- Age groups:
  - 6 to 7;
  - 8 to 10;
  - 11 to 13.
- Number of children in each age group: 10 max.
- Classes will be conducted in English.
- All classes will be taught by school teachers and teaching assistants in the school classrooms and school playgrounds.
- Once a week (on Fridays) we will arrange excursions on school buses.
- 3 balanced meals a day in the school canteen (breakfast, lunch, afternoon snack).
- The school building is protected by the school security service; video surveillance is constantly carried out both inside the school and in the area adjacent to the school.
- There will be a medical staff member constantly available at the school.

Our instructors

We are proud to have qualified instructors with experience in STEM education. We pay individual attention to each child to maximize the development of their abilities.

Nurlan Iskaliev

Nurlan Iskaliev is an experienced teacher who is a specialist in the field of robotics and computer science. His 7 years of experience in education is backed up by an impressive portfolio of achievements in Robotics competitions. Nurlan not only successfully teaches students the basics of programming and designing robots, but also actively participates in international championships, where his teams regularly take prizes.

Жетістіктер:

- 2021 – FTC Kazakhstan National Championship: 3rd Place.
- 2021 – FRC Turkey International Championship: TOP 25.
- 2021 – FTC Wolverhampton, UK International Championship: 1st Place.
- 2021 – FTC London, UK International Championship: 2nd Place.
- 2022 – FGC Astana, Kazakhstan National Championship: 3rd Place.
- 2022 – FTC Haileybury Almaty Regional Championship: 2nd Place.
- 2023 – First Haileybury International Championship: 2nd Place.
- 2023 – FGC Astana, Kazakhstan National Championship: 2nd Place (Won every qualification round).
- 2023 – FTC Haileybury Almaty National Championship: 1st Place.

Our instructors

Batyrkhan Tazhiyev

- Has been professionally engaged in Robotics for 3 years.
- British Physics Olympiad runner-up – silver medal.
- Arduino proficiency platform.
- 3 years of Python programming experience.
- 2 years of experience in computer game development.

Magellan Mukhanov

- Captain of the Nyx Pardus team.
- 2nd place at the off-season scrimmage Powerplay Aenta Fest.
- Participation and semifinalist in the Central Asia First Tech Challenge 2023.

Maxim Kim

Education:

- Anglia Ruskin University – Business Management.
- The Hague University of Applied Sciences.

Experience:

- KPMG Tax & Advisory.
- Prism Political Risk Management.
- RBC Group, IT developer.
- Python coding – 2 years.
- Special Olympics Volunteer
- Volunteer Corps on Tioman Island (Malaysia). He was teaching children English.

Our instructors

Assiya Setzhanova

Art Technician in Art Department.

Education:

- 2012-10 – 2016-05 Bachelor of Arts: History of Art and Fashion Styling, Istituto Marangoni – London, United Kingdom.

Experience:

- Quadrato Boutique LTD 2018-05 – 2020-09: Assistant to the chief buyer. Tokyo, Japan.
- Haileybury Almaty School 2022-09 – present.

Anastasia Ryumina

- Kazakh Academy of Sports and Tourism (bachelor) – PE and Sports teacher.
- Work experience: 4 years – teaching swimming to children and adults.
- Candidate for master of sports in swimming.
- International master of sports in finswimming.
- Many-time medalist and winner of the Kazakhstan swimming championships.

Atabek Sultan

Education:

- METU (Middle East Technical University), Computer science.

Sports achievements:

- Played for Chelsea FC Soccer School (Singapore).
- MVP – Most Valuable Player award at an international football tournament.
- Founder of the football league at IQanat High School of Burabay.

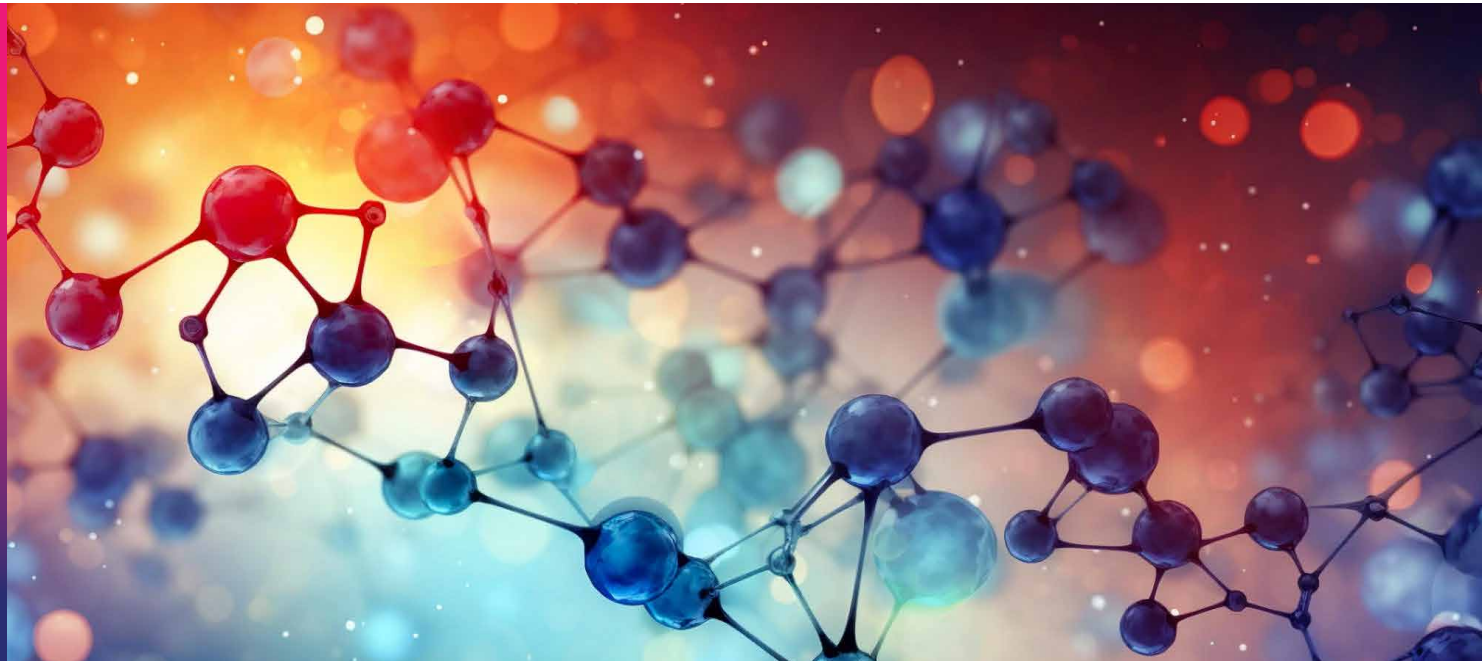
Brief overview of the camp programme

Season 1: Introduction to STEM

- Basics of Science (Introduction to Science and its application in everyday life).
- Technologies (Introduction to the basics of information technology).
- Engineering (Introduction to engineering principles and design).
- Mathematics (Game tasks and puzzles for the development of mathematical thinking).
- Research project – planning.

Season 2: Natural Sciences

- Biology (study of wildlife and ecosystems).
- Physics (laws of physics in action: motion, force, energy).
- Chemistry (basics of chemical reactions and properties of substances).
- Geology (study of the structure of the Earth and its surface).
- Research project – continuation of work.



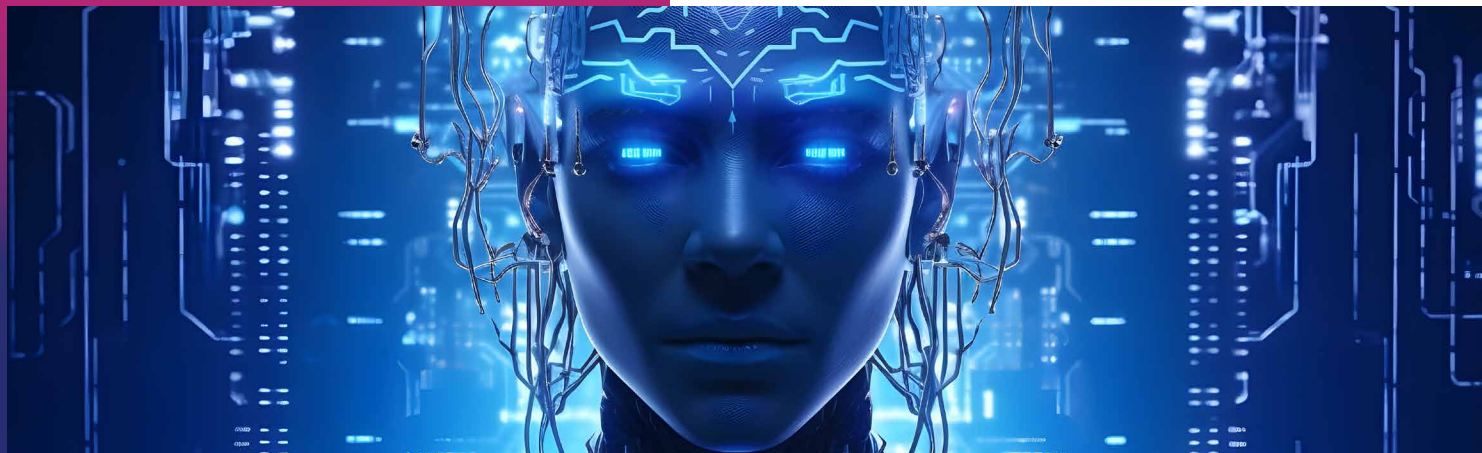
Brief overview of the camp programme

Season 3: Future technologies

- Robotics (introduction to the basics of robot programming).
- Virtual reality (immersion in the world of virtual reality and its application).
- Internet of Things (basics of networking and the Internet of things).
- Artificial Intelligence (introduction to the concepts and capabilities of artificial intelligence).
- Research project – continuation of work.

Season 4: Hands-on Projects

- Robots and automation (development of a robot project or creation of an automatic system using sensors and motors).
- Making video games (basics of video game development and creating simple game mechanics).
- Electronics and circuit design (studying the basics of electronics and creating an electronic circuit).
- Programming and Web Development (introduction to web development and creating a simple web page using HTML and CSS).
- Final presentations.
- Preparing and presenting projects to parents and other camp participants.



Brief overview of the camp programme

Season 5: Exploration and Art

- "Scientific Digest" project (research of interesting scientific facts and creation of your own scientific digest).
- Creative science experiments (conducting your own science experiments using available materials).
- Construction and design (introduction to the basics of construction and design).
- Arts and STEM (exploring the relationship between science, technology, engineering and the Arts).
- Creative project: creating a research exhibition with art elements.

Daily schedule

Monday - Thursday	
Time	Activity
08.30 - 08.45	Arrival, registration
08.45 - 09.00	Breakfast
09.00 - 09.35	Lesson 1
09.35 - 09.40	Break
09.40 - 10.15	Lesson 2
10.15 - 10.45	Activity time
10.45 - 11.20	Lesson 3
11.20 - 11.25	Break
11.25 - 12.00	Lesson 4
12.00 - 12.30	Lunch
12.30 - 13.00	Activity time
13.00 - 13.35	Lesson 5
13.35 - 13.40	Break
13.40 - 14.15	Lesson 6
14.15 - 14.30	Snacks
14.30 - 15.45	Swimming/Football
	Art
15.45 - 16.00	Leisure time, departure

Friday	
Time	Activity
08.30 - 08.45	Arrival, registration
08.45 - 09.00	Breakfast
09.00 - 09.35	Research group work
09.35 - 12.00	Excursion
12.00 - 12.30	Lunch
12.30 - 13.00	Activity time
13.00 - 13.35	Research group work
13.35 - 13.40	Break
13.40 - 14.15	Research group work
14.15 - 14.30	Snacks
14.30 - 15.45	Presentation of research projects
	Awarding the winners of the week
15.45 - 16.00	Leisure time, departure

Haileybury Almaty

Registration form

akir@haileyburyalmaty.kz

+7 (701) 757 3678 (Anna)