STEM

Summer

Camp

Summer STEM Camp

Haileybury Almaty is delighted to invite children to spend their summer in an exciting and educational STEM Camp featuring a unique learning programme.

Camp participants will embark on a fascinating journey into the world of Science, Technology, Engineering, Arts, and Mathematics (STEM). Through hands-on projects, experiments, investigations, and teamwork, children will develop critical thinking, creativity, and practical problem-solving skills.

Each week of the camp focuses on a new theme, allowing participants to explore different STEM disciplines and gain a deeper understanding of their role in the modern world. The programme also includes intensive English language classes delivered in an engaging and accessible format.

In addition to the educational programme, children will enjoy excursions, sports activities, and a variety of outdoor experiences, creating an active, enriching, and memorable summer.

Throughout the camp, participants will receive three nutritious and balanced meals daily, prepared by the school dining hall in accordance with the highest standards of quality and child wellbeing.

Age:
5-13 years old

Period:
2June 22 to July 17
(4 seasons, weekly)

Time:
08.45am to 4.00pm

Meals:
breakfast, lunch, afternoon snack

Cost:
200,000 tenge per week

Language:
english

Location:
Haileybury Almaty School,
112, Al-Farabi Avenue

Complete the registration form for the Summer Camp

Registration form

For more details, feel free to reach out to our camp coordinator Anna: akir@haileyburyalmaty.kz or WhatsApp +7 (701) 757 36 78

- Age groups

  5-6 y.o
  7-8 y.o
  9-10 y.o
  11-13y.o

- All activities are delivered in English

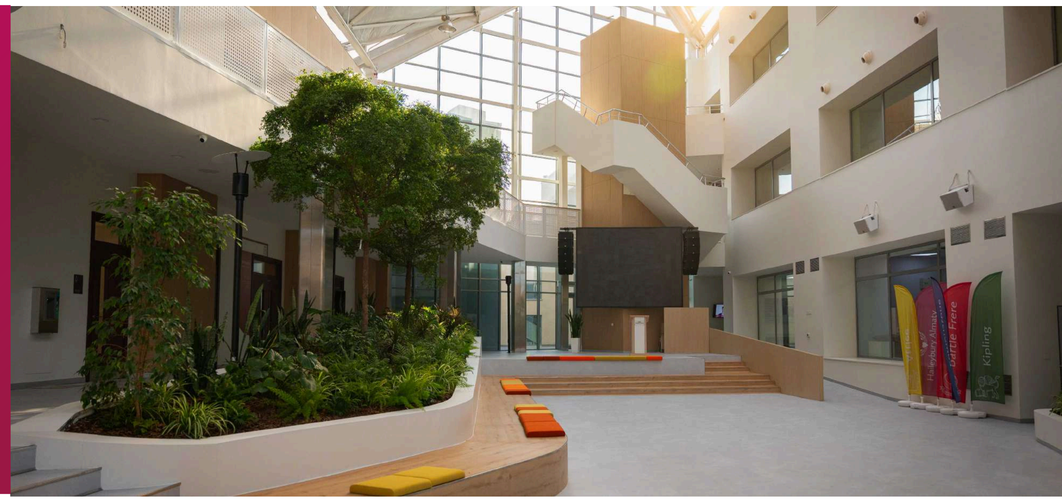
- Lessons are delivered by qualified teachers and teaching assistants on the school campus, in classrooms and outdoor play areas

- Weekly educational excursions take place every Friday using school buses

- Three balanced meals per day (breakfast, lunch, and afternoon snack)

- Comprehensive security measures, including professional security staff and CCTV monitoring both inside the school and throughout the school grounds

- Qualified medical support available when required, with the school doctor and nurse present during camp hours



The Summer camp is organised in partnership with RoLab Academy, a STEM and robotics education company specialising in high-quality engineering, programming, and digital technology education for children and teenagers.

The programme is delivered by an experienced team of STEM educators who create an engaging and supportive learning environment. Our individualised approach allows us to consider each participant’s interests, experience level, and educational needs, helping children discover their talents, build confidence, and develop skills essential for future success.

Our teachers:

Amirzhan Zhumakhan

STEAM project coordinator, robotics and eco-innovation mentor. An internationally recognised engineer and eco-trend expert

Zhibek Esimkhan

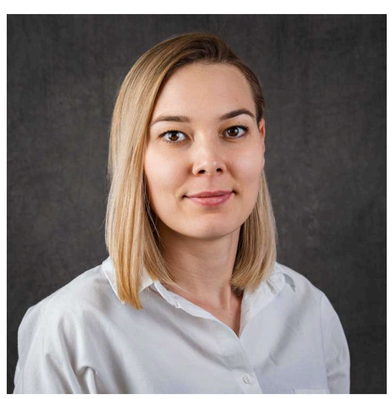
Applied STEM educator, researcher and biotechnologist. A scientist, STEM curriculum developer, and facilitator of practical STEM workshops for children and teenagers

Shadrakh Jatau La'ah Augustine

Computer Science, Mechanics, Craft and Robotics teacher. An IT Support Specialist with more than six years of professional experience in IT operations, technical support, database administration, programming, and graphic design

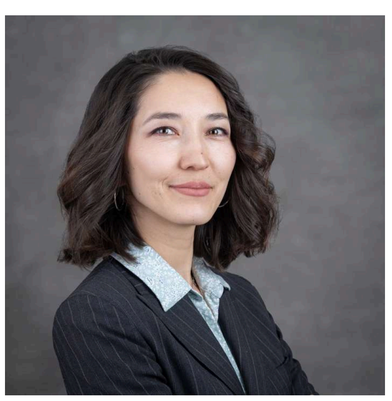
Dauren Talgatuly

Robotics coach and 3D modelling specialist. Certified mentor of award-winning robotics teams and Head Coach of FTC and FLL teams at the Republican Physics and Mathematics School



Yevgeniya Utebayeva

English teacher with Bell Foundation and CELTA for Young Learners certification. Creates engaging, immersive lessons that build confidence and help students develop strong communication skills in English



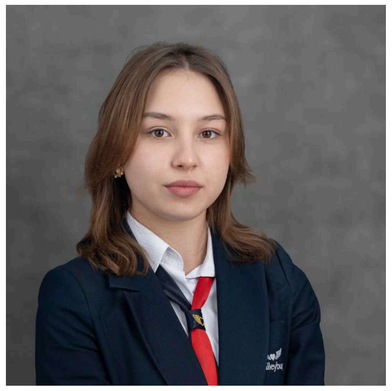
Aizhan Smailova

English teacher trained in CLIL and Bell Foundation methodologies, helping students develop subject knowledge and English proficiency through engaging lessons

Our assistants:

Alisher Balbayev

Sixth Form student, STEM enthusiast and co-founder of the Formula 1 Science & Engineering Society, with a keen interest in engineering and Formula 1 technologies



Alina Akylova

Sixth Form student, STEM enthusiast and co-founder of the Formula 1 Science & Engineering Society. Interested in CFD, bioengineering and applied engineering researchi

Azhar Zhaksyzhan

Sixth Form student at Haileybury Almaty and aspiring AI researcher. Experienced in smart-city and healthcare technologies, with internships at Astana IT University

Imanali Shyntay

Sixth Form student at Haileybury Almaty with a passion for engineering, programming and robotics. Works on projects in drone engineering, RC aircraft and environmental technologies

Our coaches:

Nazar Toguspayev

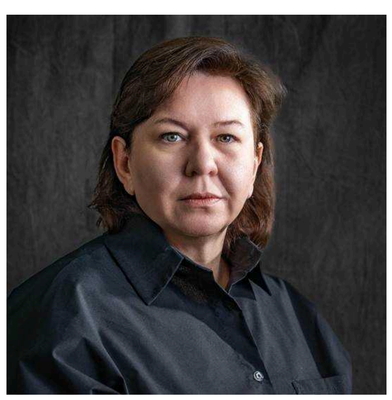
More than 16 years of continuous coaching experience. A degree from the Kazakh Academy of Sport and Tourism, possesses a UEFA B Coaching Licence

Assiya Setzhanova

Art Technician in the Arts Department at Haileybury Almaty. Bachelor of Arts degree in History of Art and Fashion Styling from Istituto Marangoni, London, United Kingdom

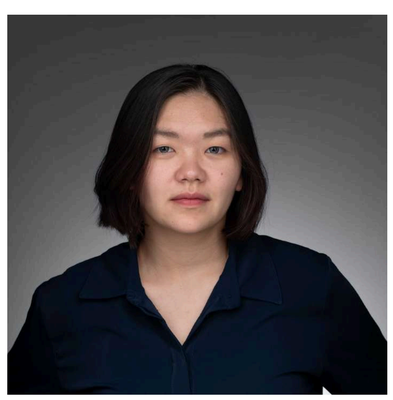
Anastassiya Ryumina

Swimming coach and Physical Education teacher with six years of experience teaching children and adults. Candidate Master of Sport in Swimming and International Master of Sport in Finswimming



Anna Kir

Camp administrator. Haileybury Almaty school Compliance manager, External Enrichment Activities coordinator



Ramina Sabirova

Academic programme coordinator, international robotics competition expert and coach

Season 1:

Smart Eco-School Lab

Period: 22–26 June

STEM

- School ecosystem map: light, air, water, energy
- LED circuits, light, energy, mini solar panel
- Temperature, humidity, microclimate, CO_2 demo
- Presentation of a model and engineering solution for the school

Game Development

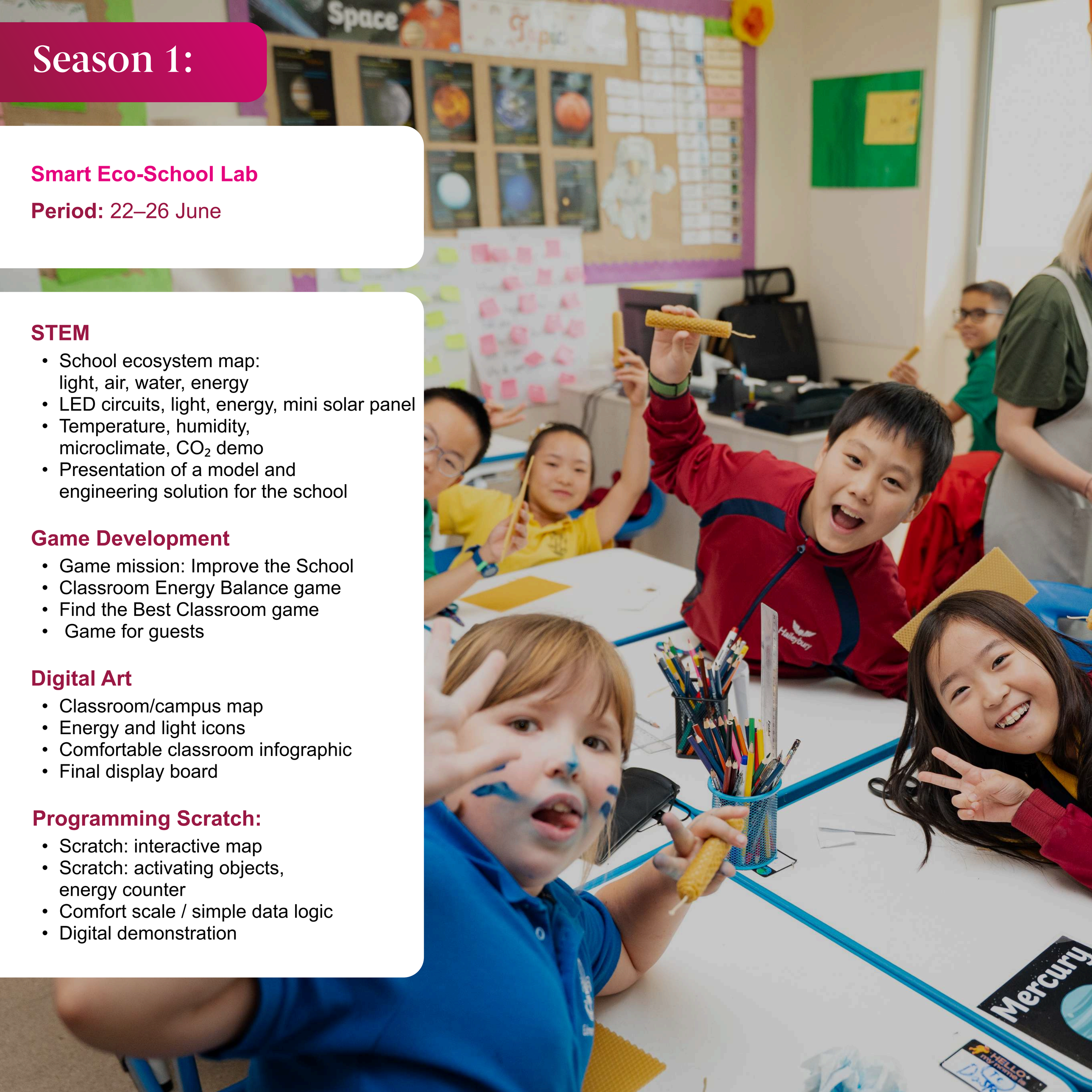
- Game mission: Improve the School
- Classroom Energy Balance game
- Find the Best Classroom game
- Game for guests

Digital Art

- Classroom/campus map
- Energy and light icons
- Comfortable classroom infographic
- Final display board

Programming Scratch:

- Scratch: interactive map
- Scratch: activating objects, energy counter
- Comfort scale / simple data logic
- Digital demonstration



Season 2:

Green Tech & Plant Systems Lab

Period: 29 June – 3 July

STEM

- Soil, moisture, plants, mini greenhouse, plant data card
- Water, simple filtration, drip irrigation model
- LED, mini solar panel, power supply for a smart greenhouse
- Assembly of a mini station: plant, moisture, light, energy

Game Development

- Save the Plant game
- Water conservation issue
- Energy for the Greenhouse game
- Final game mission

Digital Art

- Plant care poster
- Water conservation infographic
- Energy and operating mode icons
- Smart greenhouse display board

Programming Scratch:

- Condition: if dry – water
- Timer / water usage counter
- Logic: if dark – switch on light
- Digital demonstration
- Interactive demo mode

Season 3:

Sustainable City Lab

Period: 6–10 July

STEM

- City model: roads, houses, parks, water, waste
- Transport, air, traffic flow
- Sorting, materials, reuse
- City module: transport, waste, air or park

Game Development

- City mission: choose a neighbourhood problem
- Choose the Clean Route game
- Recycling Race
- Game demonstration of a solution

Digital Art

- City map and risk zones
- Transport / road sign design
- Waste sorting pictogramsF
- inal map / display board

Programming Scratch:

- Scratch: interactive city map
- Route and scoring logicS
- cratch quiz / waste classifier
- Digital demo

Season 4:

Future Makers Innovation Lab

Period: 13–17 July

STEM

- Choose a challenge: health, water, energy, nature, urban environment
- Build a prototype or demonstration model
- Testing: does it work, is it clear, what can be improved
- Team prototype presentation

Game Development

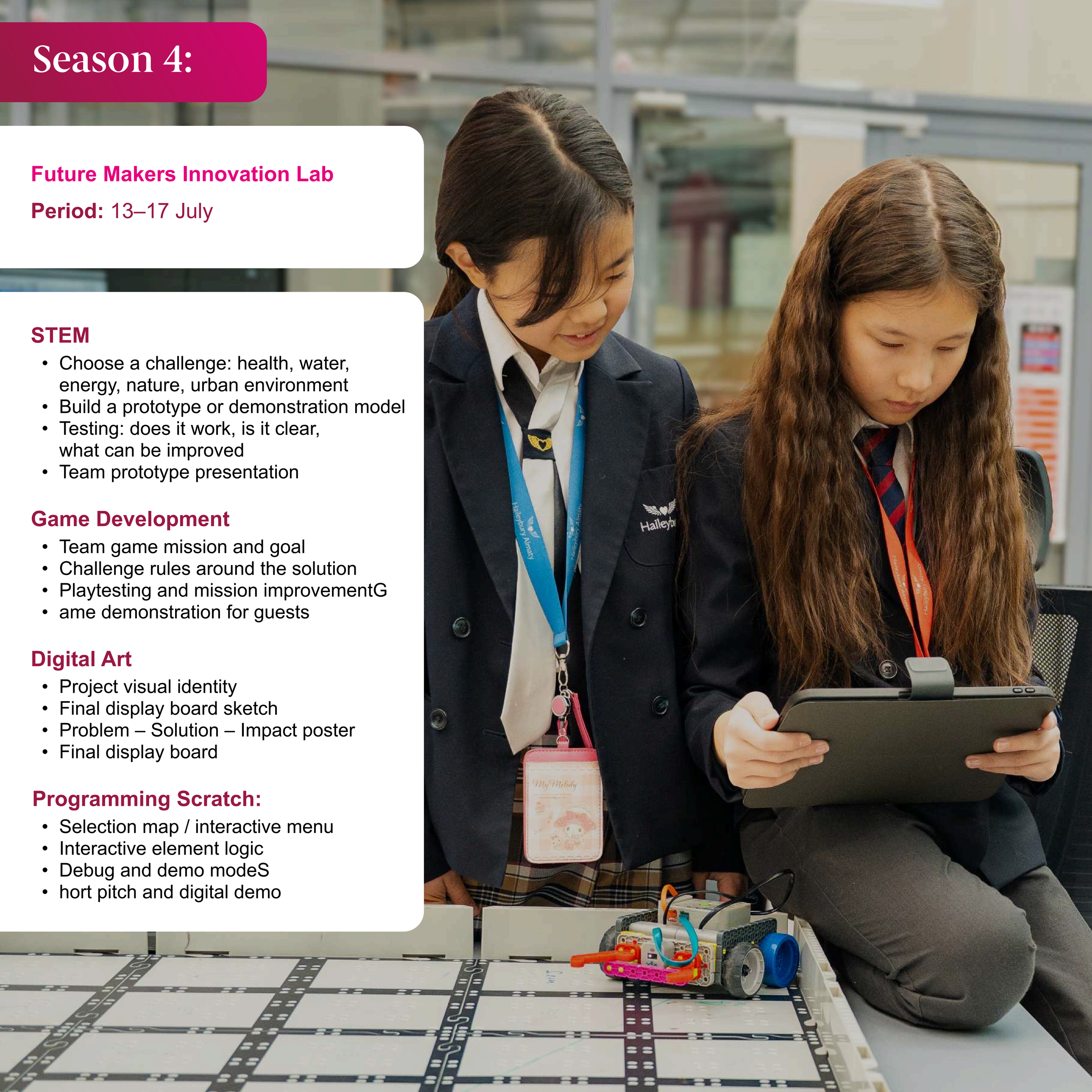
- Team game mission and goal
- Challenge rules around the solution
- Playtesting and mission improvementG
- ame demonstration for guests

Digital Art

- Project visual identity
- Final display board sketch
- Problem – Solution – Impact poster
- Final display board

Programming Scratch:

- Selection map / interactive menu
- Interactive element logic
- Debug and demo modeS
- hort pitch and digital demo



Camp Schedule:

(Monday – Thursday)

Time	Activity
08:30 – 08:45	Arrival and registration
08:45 – 09:00	Breakfast
09:00 – 09:30	English
09:30 – 09:40	Break
09:40 – 10:40	Lesson 1 (STEM)
10:40 – 10:50	Break
10:50 – 11:50	Lesson 2 (Game Development)
11:50 – 12:00	Break
12:00 – 12:30	Lunch
12:30 – 13:30	Lesson 3 (Digital Art)
13:30 – 13:40	Break
13:40 – 14:40	Lesson 4 (Programming)
14:40 – 14:50	Snack
14:50 – 15:45	Swimming / Football / Dance / Art
15:45 – 16:00	Free time and departure

Camp Schedule:

(Friday)

Time	Activity
08:30 – 08:45	Arrival and registration
08:45 – 09:00	Breakfast
09:00 – 09:30	English
09:30 – 12:00	Excursion
12:00 – 12:30	Lunch
12:30 – 13:30	Weekly project showcase
13:30 – 13:40	Break
13:40 – 14:40	Weekly awards ceremony
14:40 – 14:50	Snack
14:50 – 15:45	Swimming / Football / Dance / Art
15:45 – 16:00	Free time and departure

Haileybury Almaty

Registration form

akir@haileyburyalmaty.kz

+7 (701) 757 3678 (Anna)