ШОҚАН УӘЛИХАНОВ атындағы мектеп

Shoqan Ecology

INTERNATIONAL SCIENTIFIC FORUM

"SHOQAN ECOLOGY 2027"



April 24, 2027

Junior Grades 3-6

Direction 1: Plants are the green heroes of our Planet
Direction 2: The world of animals
Direction 3: Humans and ecology
Direction 4: Elements of the Earth are amazing forces of nature

REGISTRATION UNTIL 01.03.27

SHOQANECOLOGY.KZ

REGULATIONS
for the International Scientific Forum of Young Scientists
“Shoqan Ecology Junior 2027”
hosted by the “Shoqan Ualikhanov Private School”
for students of grades 3-6

Almaty 2026

GOAL AND OBJECTIVES OF THE SHOQAN ECOLOGY JUNIOR FORUM:

- Increasing the interest of students in **grades 3-6** in project-based, research, and practical activities in the field of **ecology**;
- Encouraging research and project engagement among students in grades 3-6 in the study of environmental issues and sustainable development;
- Developing research, analytical, and practical skills, including the application of **STEM knowledge** and tools in environmental studies;
- **Enhancing students' intellectual** and creative potential, as well as fostering critical thinking and environmental awareness;
- Building skills in independent information search, analysis, and presentation, while identifying and supporting motivated and gifted students in **grades 3-6**.

DATES AND VENUE:

Forum Dates: April 24, 2027, 10:00-13:00

Venue: Almaty, 050059, Medeu District, Samal-3 Microdistrict, Building 37/1 LLP "Private School named after Shokan Ualikhanov"

Main Participation Requirement:

The Forum is open exclusively to students in grades 3–6 from general and specialized educational institutions of the Republic of Kazakhstan, as well as from neighboring (CIS) countries and other foreign countries.

Working Languages of the Forum:

- Kazakh
- Russian
- English

The Forum consists of two stages:

- Stage 1 – Online selection of research projects that meet the competition requirements. Up to 25 research works will be selected in each section.
- Stage 2 – Offline (in-person) presentation of the selected projects by the participants.

The jury will consist of leading specialists, scientists, and practitioners in the fields of chemistry, biology, physics, and ecology.

SECTIONS AND CATEGORIES OF THE SHOQAN ECOLOGY JUNIOR FORUM

Within the Forum, project works will be accepted in the following sections:

№	Section Title	Section Description
1	Plants – are the green heroes of our Planet.	Research focused on the diversity, conservation, and restoration of plant life. Participants may study the effects of pollution and climate change on plants, as well as develop methods for the protection and restoration of flora. Projects may be theoretical, experimental, or aimed at developing practical solutions, such as the creation of green spaces or the study of rare and endangered plant species.
2	The world of animals.	Projects focused on the study and protection of animals and their habitats. Participants may explore the impact of human activities on fauna, develop methods for protecting endangered species, or propose technologies for monitoring and conserving wildlife. This section welcomes projects aimed at preserving biodiversity and ensuring the sustainability of ecosystems.
3	Humans and ecology.	Research on the relationship between environmental conditions and human health. Participants may investigate the impact of air, water, and food pollution on human health, propose solutions to improve the environmental quality of residential areas, and develop preventive measures for environmentally related diseases. This section includes both theoretical studies and applied research projects that use innovative solutions to enhance quality of life.
4	Elements of the Earth are amazing forces of nature.	Projects focused on physical processes in nature and their impact on plant life. Participants may study the effects of solar radiation, weather conditions, and mechanical processes on plants, as well as develop technologies for plant protection and care. This section welcomes experimental studies and applied research projects, such as innovative methods of irrigation and protecting plants from adverse environmental conditions.

- All project works will be evaluated in three age categories within each section:
  – *First age group: Grades 3–4*
  – *Second age group: Grades 5–6*
- Project works may be presented in three languages: *English, Kazakh, or Russian*.
- Each project work may participate in only one category.
- The same participant may **not be the author of more than one project work**.
- **Team projects may include no more than four students.** Please note that all team members must belong to the same age category.

REQUIREMENTS FOR PROJECT WORKS OF PARTICIPANTS OF THE SHOQAN ECOLOGY JUNIOR FORUM

- In each section, project works may be research-based, theoretical, experimental, or inventive, focusing on environmental issues.
- A mandatory requirement for all research projects is the presence of a physical model demonstrating practical applicability, a .pptx containing the research content, and an A1-format poster for the project fair.
- Each project must explore and clearly address environmental problems.
- Project works must correspond to the age-appropriate skills and competencies of the participants.
- Project works should raise awareness and increase students' interest in environmental issues.
- Project presentations must include the following information:
  – Project title, section, age category, goals, and objectives;
  – Relevance and novelty of the project;
  – Hypothesis or expected outcome;
  – Methods, approaches, and stages;
  – Results or conclusions of the project;
  – Final conclusions based on the results;
  – List of references used.
- Project posters must be in A1 format (59.4 × 84.1 cm) and include the following information:
  – Project title, section, age category, goals, and objectives;
  – Relevance and novelty of the project;
  – Hypothesis or expected outcome;
  – Methods, approaches, and stages;
  – Results or conclusions of the project;
  – Final conclusions based on the results.

  Examples of posters are provided in Appendix No. 1 of these Regulations.

  Presentation time for each project is 10 minutes.

EVALUATION CRITERIA AND CORE VALUES OF THE SHOQAN ECOLOGY JUNIOR FORUM

Project works will be evaluated according to the following criteria:

– Understanding of the project, its goals, and objectives;

– Relevance and originality;

– Depth and completeness of project presentation;

– Appropriateness of knowledge and skills demonstrated in relation to the participants' age category;

– Public speaking and presentation skills;

– Practical and theoretical relevance of the project.

The evaluation will be carried out by members of the jury, consisting of recognized Kazakhstani and international scientists in the fields of natural sciences, mathematics, and ecology.

Appendix No. 2

Sample Poster of a Project Work by Participants of the

International Forum SHOQAN ECOLOGY JUNIOR

