

Qatar

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- Education

the most prominent events of the Globe Qatar program, which is organizing the first training meeting for the Globe-Environmental Program for the academic year 2023/2024, in the presence of specialized trainers from the sisterly State of Kuwait. This meeting targeted more than 50 science teachers in government schools (primary, middle, and secondary) and specialized schools, and continued for three days, starting from Tuesday, October 31, 2023, until Thursday, November 2, 2023. The first and second days were devoted to theoretical training workshops with the aim of introducing male and female teachers to the Globe-Environmental Program and training on air and soil protocols, and enabling teachers to accurately monitor and record observations and benefit from them in training students to implement scientific research related to the environment and achieve sustainable development goals.

The Globe activities plan has been circulated to government schools, and the schools are being followed up on implementing this plan, and the focus this year is on the agricultural aspect, given the current organization of Expo Qatar in the State of Qatar.

- Science

Jassim bin Hamad Boys' Secondary School, one of our active Globe schools, recently hosted the Green Chemistry Lab competition. This initiative, aligned with the GLOBE Environmental Program in collaboration with the Al Rayyan Sports Club, aims to bolster the teaching and production quality in the State of Qatar.

The primary objective of the competition is to heighten students' awareness of the significance of studying chemistry, emphasizing its practical applications in agriculture and soil quality analysis to enhance agricultural practices. Organized by the country coordinator and assistant coordinator, the event strives to instill a sense of citizenship, promote sustainability principles, and contribute to achieving food security by analyzing soil samples and employing chemical knowledge to select suitable plants for cultivation in various soil types.

The competition kicked off with students from Jassim bin Hamad Boys' Secondary School presenting entertaining and educational chemistry experiments. Subsequently, participating school teams transitioned to competition tables, where each team randomly selected a soil sample for analysis. They were provided with the necessary materials and tools, along with detailed instructions outlining the steps to analyze the soil sample and measure key components such as chloride ions, carbonates, acidity levels, and organic matter. This hands-on approach fosters a practical understanding of scientific concepts while reinforcing the relevance of chemistry in addressing real-world challenges.

- Community

REPORT FOR 2023

- 1- We collaborated with the Ministry of Environment and Climate Change to organize a field trip to the Al Dhakhira Reserve (Purple Lake) on Thursday, November 2, 2023. The purpose of this excursion was to train a group of female science students and teachers in the implementation of practical activities while ensuring no harm or damage to the trees, plants, or any property within the reserve. The activities focused on studying various properties of water, including the transparency, temperature, dissolved oxygen levels, pH, salinity, and conductivity. Additionally, the participants explored soil properties, such as soil pH, surface temperature, and soil moisture. Noteworthy is the participation of several schools in this trip, including Al-Khor Primary School for Girls, Al-Khor Middle School for Girls, Al-Khor Secondary School for Girls, Al-Khor Model School for Boys, Al-Dhakhira Model School for Boys, Al-Shamal Middle School for Girls, Al-Kaaban Joint School for Girls, and Al-Ghuwayriyah Joint School for Girls.
 - 2- The Chemistry Festival, an annual social and scientific event, is organized by the Chemistry and Earth Sciences Department at Qatar University in collaboration with the American Chemical Society (Student Branch). This event, which brings together professionals, teachers, and students, features practical activities aimed at emphasizing the importance of chemistry in daily life and promoting awareness of sustainable environmental development. The festival's overarching goal is to enhance students' knowledge and passion for science, particularly in the field of chemistry. It provides an enjoyable and engaging environment through various chemical experiments and activities. This semester, the festival's theme centered around green chemistry and its contribution to enhancing the Sustainable Development Goals.
- Technology
Qatar page on the GLOBE website has been updated, with the addition of new schools and teachers, as well as modifications to the data of some teachers.
 - Communications

We have successfully achieved a GLOBE Star for the Green Chemistry Lab competition. Additionally, we have applied for another GLOBE Star for an activity conducted from March to May 2023, titled "Hassan Bin Thabit Scientific Excellence (1st Edition: Illustrated Environmental Experiments)." This competition aimed to foster a sense of constructive competition and challenge among students.

Currently we have applied for another Globe star about activity involved conducting experiments to measure the pH of the soil in the school garden, determining suitable agricultural crops based on the results, recording a video of the process, and submitting it to the organizing school. Launched in March 2023, schools were provided with a one-month window to record and submit their videos. The judging process and the announcement of the winning schools are scheduled to take place in May 2023.

Plans and Ideas for Next Year:

- 1- Developing the Qatar page on the GLOBE website.
- 2- Conducting workshops on The Sustainable Development Goals.
- 3- Organizing new competitions in girls' schools.
- 4- Celebrating Earth Day.
- 5- Implementing soil and atmosphere protocols in new schools.
- 6- Providing teacher training for the GLOBE Observer app and conducting competitions for the cloud protocol.
- 7- Encouraging schools and teachers to participate in the International Virtual Science Symposium (IVSS) by delivering workshops, providing ongoing support, and guiding schools in their research endeavors.