

# Take Off to the Science World ~First in the lab then to the World ~

## Super Science High School (SSH) 3<sup>rd</sup> Term

- I . Establish a foundation to nurture female scientists ambitiously heading for the world
- II . Nurture Girls with scientific proficiency
- III. Provide opportunities for hands-on scientific experiments for elementary and junior high students, thereby expanding dreams of science

## Approach Wonders! “Research Projects”

Research Projects is a class where the 2<sup>nd</sup> year students of the SS class decide a research theme and investigate it as a group, with assistance from Universities. Generate your curiosity!



Research examples

Physics : ”Ideal paper airplanes from a physical point of view ”

Chemistry : ”Creation of ink from natural pigment”

Biology : ”The intestine regulating function of *Natto Yeast*”

Geoscience : “Spring water in Mito”

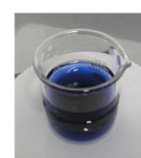
Math : “The co-relation between data and sports performance”

### BZ’ reaction research

The article of research on Belousov-Zhabotinsky reaction was carried in an American Science Magazine, *The Journal of Physical Chemistry A* in 2011.

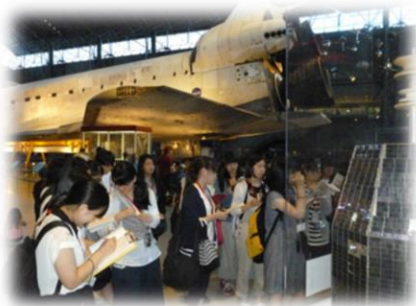


oxidation  
→  
reduction



## Overseas Seminar in U.S.A.!(Washington D.C. Boston California)

26 student of the SS 2<sup>nd</sup> year class go to America to tackle the themes on nature, science and technology.



National Air and Space Museum



Harvard university



Tufts university



Tracy High School



Yosemite

National Park

## Conveying the Pleasure of Science to the Next Generation

### ~Challenge Science~

By having our students do experiments together with elementary and JHS students we expand the range of young people intrigued by science,.



Mizuki Kajita

### Message from a SS class student

I think one of the appealing points of the SS class is that you are able to study in the science field like a professional. Through many events such as overseas seminar, research presentations, and university visits you are able to learn presentation skills and find new perspectives on research. Why not expand your field of viewing by studying in the SS class.



# *From Mito Daini to the World ~To become a global citizen ~*

## *Raising Female Leaders with Global Point of View*

- I . Aim for an understanding of international situations and the significance of working worldwide
- II . Cultivate the ability to accept cultural diversity through understanding and experiencing Japanese history and culture
- III. Improve presentation skills and English proficiency to state opinions in public

## *Reconfirm the Quality of Japan*

Let's convey our Japan to the world! Research examples



Students guided some foreign exchange students at the Kodokan and introduced Japanese culture to them.

Kimono seminar



Students learned how to put on kimono from a dressing mistress. They were excited by wearing a furisode.

## *Feel Closer to the World*

Viewing of the movie "Girl Rising" made by Plan Japan



Students thought about what we can do for those girls who have no access to school.

English Day Camp



Students role-played as ambassadors from 10 different countries in a Model UN conference, discussing the food menu at the UN café.

## *Foreign Exchange Program in Australia (Adelaide)*

38 students (10th graders) took part in the 10-day program with homestay, exchange with local students, and a cross-cultural program.



Exchange with high school students in Adelaide



Visit to Adelaide University and local enterprises



Introduction of Japanese culture

## Message from a Foreign Exchange Program Participant

We went through a lot of experiences in this program, such as a homestay, exchanging with local girl students, and a visit to local enterprises. Through those experiences, I came to see English as an appealing language. For example, when we speak in English, we should avoid ambiguity. As a result, I was able to say yes or no when necessary. This helps us be convincing when we state our opinion. It made me aware that such behavior is also an important part of qualities with which women play an active role as a leader in society. This program helped me discover myself and feel more grown up.