

August, 2017

#9 A Conference for Science and Mathematics High School Students for

Research on a Given Study

On August 10th to 11th, Kyuyo High School students, Fuka Kamiunten, Yui Higa and Sakina Toyozato, participated in a conference at Okayama University. This conference is a presentation for a research on a given study for science and mathematics course students of all high schools in the Chugoku district, the Shikoku district and the Kyushu district in Japan. Their research topic was "A Flame Reaction Using Electricity." They were motivated to start their research by seeing an experiment where an electric current was sent through pickled Japanese radish in their chemistry class. Their research experiment outline is below:

- It is possible to cause a flame reaction using electricity.
- We examined if a factor of the flame reaction is cellulose contained mainly in Japanese radish. However, we found out that cellulose was not a factor of the flame reaction.
- As we conducted an experiment with changing the quantity of metal ions, we found out that it was the factor of the flame reaction.

<Comments from students>

"I was able to get various ideas from listening to many presentations."

"It became a great experience for me because we received a lot of advice from high school teachers and university professors with various perspectives."

"Our goal was to finish our presentation within four minutes. Because we practiced a lot, we could make a satisfying presentation."

