

## Investigation into agricultural utilization by the aluminum removal of the trass

\*Yuto Miki<sup>1</sup>

1. Tokyo Metropolitan Tama High School of Science and Technology

In Japan, 25% of the land is volcanic ash soil. The main constituents of volcanic ash soil are Fe and Al, which are low in nutrients and microbes and tend to be acidic. Al is dissolved in acidity and chemically combined with P added as fertilizer to form  $\text{AlPO}_4$ .  $\text{AlPO}_4$  does not become nutritional. Also, Al damages plant roots. In order to solve this problem, this study aimed to remove Al from volcanic ash soil. This time, we investigated the basic survey of the soil and how much Al could be dissolved from the soil.

Keywords: Soil improvement, Volcanic ash, Allophane