

Forest education by the making of a clay ball and a moss ball

*Yuna Miyachi¹, Arika Tsuji¹, Yuzuki Kobayashi¹, Sae Takami¹, Tatsuki Morikawa¹, Ryota Yamasaki¹, Yuto Umeda¹, Matsuki Rina¹, Nahoko Kubo¹, Yo Sayama¹

1. Kyoto Prefectural Sagano High School

Recently, through direct experience, we learned about forests, which are the natural environment in our local region that fosters the recycling of resources, the cultivation of technologies, and attitudes related towards forests. These attitudes include sensibility, sociability, problem solving power, etc., and form our society and future education aimed at human resource education that will promote a sustainable social culture. In this study, we examined the making of clay balls and moss balls for forest education purposes. The purpose of our study was to study how to make the shine of the clay ball more easily and to clarify the conditions under which long-term nurturing was possible. One of the reasons why clay balls “glow” is explained by the orientation of the soil particles, and that tendency is strengthened by polishing. Although various materials were examined in this research, we were not able to make the ball shine when the soil particle shape or size was too small. Further study will be necessary in the future. For the moss ball, it is generally said that it is difficult to nurture moss balls indoors. Therefore, in this study, it was considered necessary to study the nutrient source of the moss in order to enjoy it for a long time. Regarding the health of moss, color changes when pure water and rainwater were given to the moss was compared using RGB values. As a result of using three types of moss from various sized communities, it was found that moss given pure water changed color in a relatively short time. From this, it can be inferred that there is a component contained in the rain water causes the moss to last longer, and it has been found that it is necessary to supply a certain amount of rainwater as a nutrient source.

Keywords: Moss, Forestry, Clay