

Let's make Shikaribetsu lake by yourself: geopark lecture in Shikaoi elementary school

Shintaro Hayashi^{1*}

¹Fac. of Edu. and Human Studies, Akita Univ.

The lecture of the name "Let us make the Shikaribetsu lake by yourself" was performed to a total of 183 children of the Shikaoi elementary school and other schools in the Shikaoi-cho geopark concept area.

<The outline of the lecture>

the central resources of the Shikaoi geopark concept is the Shikaribetsu lake which is dammed up by lava domes.

Therefore, the main aims of the lesson were set at the point "understanding the formation process of the Shikaribetsu lake with feelings."

Geographical feature of the valley system before the domes was made from papier-mache. Lava domes was made from the dentistry impression material. Then water is poured into the depression by valley and the domes.

The composition of a lesson is as follows.

The lecturer first outlines the magma and the volcano.

Next, formation process of the Shikaribetsu lake is explained briefly, and then an experiment is started.

<Questionnaire>

About 5 minutes were used to fill up the questionnaire sheet.

The three questions were set up in order to obtain degree of comprehension about the contents of the lecture.

The next three questions are for knowing intelligibility, pleasure of the lecture, and the intelligibility of the formation Process of the Shikaribetsu lake, respectively. And the last question is a comment. Questionnaires were collected from all the students who participated in the lecture.

<The result of a questionnaire>

Question, Do you understand the lecture?: over 90 percent of children answered "I understand the lecture" or "I understand the lecture very well"

Question, Was the lecture pleasant?: 80 percent or more of the child has answered that It was very pleasant.

Question, Do you understand how the Shikaribetsu lake was formed ? : 45% for the fourth grade children answered that they understood the lecture very well. For the 5th and 6th grade children, it was about 70 percent.

Keywords: geopark, Shikaoi geopark, Experiment, Lava dome