

Student science continuation study on rocks and minerals weathering experiment 2

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I have been instructing the continuation study to check rocks and minerals change experimentally as a student study of junior high school science club for 23 years. In this continuation study, I have valued the study of the change basalt and fayalite with ultraviolet rays and the water most. This study is for a purpose to clarify one of the causes with much iron oxide on Mars. Therefore, students irradiate ultraviolet rays to the basalts and fayalites soaked into purified water and check their change. There is much basalt and fayalites on Mars probably. In addition, it is estimated that water existed on past Mars. Therefore, in past Mars, it is thought that ultraviolet rays and water were one of the factors to change rocks .

At first I am interested in the study and I decide directionality and the plan of the study of science club and prepares for tools. And the student who was interested in the study joins the scientific club and studies it. In other words it is a teacher-led science continuation study, but values the idea and opinion of the students. In a junior high school and the elementary school science, I think that such a teacher-led science study should be carried out more lively in Japan. And I think that it is easy to practice such a teacher-led science continuation study in the field of earth planet science and the field of biological science in particular.

Keywords: student study, ultraviolet rays, water, fayalite, basalt, change