

## Dagik Earth, a 3-D display of the Earth, in school

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We developed educational programs for the earth and planetary science using a three-dimensional presentation system of the Earth and planets with a spherical screen. The system is called, Dagik Earth. It has been used in classrooms of elementary schools, junior high schools and high schools. Current status and future development of the project will be introduced in the presentation.

Keywords: Digital globe, Science, 3-D

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## Astronomy education in the Annular Eclipse at FurukawaReimei

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Efforts to report the eclipse of May 21. Cooperation with the local community. Assistance to the affected areas.

Keywords: Astronomy Education, Annular Solar Eclipse, Community, SupportIng devastated areas, Super Science HighSchool, Miyagi Prefectural FurukawaReimei J&SHS

## The student's present understanding and problem toward the disaster prevention in Tokachidake volcano

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We conducted a disaster prevention educational activities and made a questionnaire investigation to students in elementary school and junior high school located at the foot of Tokachidake volcano.

In this presentation, we will report the current status and issues from the results obtained.

Keywords: Volcano, Tokachidake, Disaster Education

## Changes and issues of Earth and Planetary Science as seen in the new the Lower Secondary "Science" Textbook

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The junior high school "science" came into full effect beginning in the 2012 fiscal year.

It seems that the textbook has on increased number of pages and is rich in substantial contents owing to the increase in course load.

However, in the study by the new national curricula standards, the goal and contents composition have changed and the degree of fullness of the contents cannot be judged only by the increase in the number of class hours.

The current situation and the issue of earth planetary science are explored from the descriptive content of a textbook.

Keywords: national curricula standerds, textbook, junior high school, science, earth and planetary education

## Production of playing disaster prevention Karuta for the purpose of disaster management awareness-raising activities

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In this project we created a Disaster Prevention Karuta, in order to develop teaching materials that can be experienced with the body myself not only look at teaching materials, to enhance awareness of disaster prevention. Karuta productions were aware of the following. Playing Karuta to have a sense of crisis because of the natural disasters, I have tried, however, so as not to give a sense of fear, shock. Do not use expressions such as caught in the tsunami, in particular, is such as not to use Badend representation (worst consequences). Design is aimed at a picture be taken to all people. Colors were so warmly even if there is a sense of urgency. The color scheme I have tried to give an overall sense of unity as much as possible. We have tried some of the children's center the disaster Karuta in Morioka City, Iwate Prefecture. We got the following response was to hear about the playing Karuta from the teachers and the children after playing the Karuta:

They was able to continue untile the playing end without getting tired. They think disaster Karuta to be effective because it was almost like the children are playing Karuta. They think I can be a little interested in disaster reduction have trying to learn their own behavior. They think the Karuta will have an opportunity to look at the disaster prevention. They was able to give the impress texts or pictures by making their experience.

Keywords: Disaster Prevention Education, Disaster Prevention Education Materials, Disaster prevention awareness-raising activities, Karuta