

## Earth science and geography teaching materials that can foster perspectives and ideas

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What is required for earth science and geography education in secondary education is not to educate experts, but to foster the necessary earth science and geography perspectives and ideas as members of society. Students have misconceptions of the earth and geography based on their own experiences. The purpose of education is to change the misconception into more scientifically appropriate concepts through classes. From these points, the most important elements of the teaching materials of the earth science and geography required are the contents and materials that can properly feed the viewpoints and ideas unique to the subjects. At present, there is a problem in the figures showing the phenomena published in textbooks. For example, it is necessary to understand that the meteorological front is drawn with emphasis on height. However, if teachers do not understand that, they will foster students with wrong viewpoints and ways of thinking. From the above, from the standpoint of having experience as a teacher in school and teaching in the School of Education, it is important that textbooks used in schools accurately describe phenomena.

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