

Application of kitchen earth science for multidisciplinary and interdisciplinary education

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Science research and education on problem-solving type are required, universities are introducing educational programs aimed at fusion of disciplines and interdisciplinary research and training for human resources. Participatory project-based methods are actively being introduced.

"Kitchen Earth Science" session in the past JpGU, had some developments of teaching materials aimed at raising awareness of specific phenomena and helping understanding, but in this thesis, we will discuss how to apply to team project type education We categorized these cases.

Despite the fact that the time limit is great due to the educational program outside the main major, the importance is put on the practice in the area, and as a result, the expectation from the area is large.

Kitchen Earth Sciences : Simple analog experiments helped understand disaster mechanisms, history shows the frequency and magnitude of disasters. It is possible to deal with specific phenomena such as liquefaction phenomena and river overflowing in multiple ways or to deal with multiple phenomena that can occur in the same area, from multiple fields such as history, mechanism, measures, It was excellent in that it was able to comprehend the characteristics of the way of thinking among fields in the course of making a series of educational curriculums examined.

Living science: Teaching material development using card games and communication terminals was conducted. It is excellent for flexible applications according to age and interest, is excellent in portability, has many opportunities to practice in the region, is excellent as a trigger to listen to the voice of the region, verification of educational effect It was also excellent in terms of easy to do. However, the elements of analog experimental thinking that Kitchen Earth Science had originally been proud of were poor.

Garage Earth Sciences: Material cost is more expensive than kitchen earth science, but while utilizing commercial products, customize according to purpose, learn to divide roles according to specialty in team and create efficient division of labor It was excellent as opportunity.

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