

## Diversified approach in astronomical education 1 The effect of the study support using the authentic resources

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It considered how study activities of a child and a student would be supported effectively using the newest information, the intellectual property, and the research resources (these are called authentic resources by this research) of the astronomy which a university and a research organization own.

Specifically, in case the researcher supported study of a child and a student using the authentic resources, the effect and subject of following three activities were examined.

1. General support
2. Development of the teaching materials for enquire study
3. Researcher support to reseacher-like activity, abbreviated name RSRLA

Consequently, the following three results were found.

1. It is effective that study support is offered continuously.
2. As for development of the teaching materials for enquire study, it is desirable to take in each perspective of a teacher and a specialist.
3. RSRLA is effective in training (self-regulated learning) of self-study power.

Moreover, when advancing study support using the authentic resources, the teacher and the specialist proposed collaboration for learning with the Internet, abbreviated name CLI, which supports learning of a student together.

In CLI, the case where the new community where participation of the teacher to the community about special research and participation of the specialist to the community about school education are materialized simultaneously, and practice education was formed was checked.

In the study support using such authentic resources, the community formation for the education of a specialist and a teacher is indispensable, and formation of the community of learning using the Internet is wanted to be promoted in various educational fields not only including astronomical education but including earth science education.