

Integration of agricultural education and biodiversity: Introducing synecoculture into elementary school in Taiwan

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Abstract

As food protection incidents manifest continually, human beings placed extra problem on meals, therefore ???Food and agricultural schooling??? grow to be a trend. Food and agricultural schooling are divided into parts, one is meals schooling that mixes nutrition, protection and culture, the opposite is agriculture schooling that specializes in meals source, farming and environment. Currently, instructors train the nutrition, biology that is written at the textbook, however with out the realistic and in-area experience, the agriculture schooling is inadequate in Taiwan. Our undertaking combines agriculture schooling and synecoculture, in collaboration with Sony CSL in Japan. Synecoculture is an open-area crop cultivation method, which removes using tillage, fertilizer, pesticide, herbicide and absolutely is based at the productiveness primarily based totally on biodiversity. There are 3 motives to instigate synecoculture to the primary school:(1) Less field labor which makes easier approach for elementary school students to experience and understand, (2) It includes both knowledge and practice: Learning on biodiversity and the training of farming skills and (3) Elementary school is the primary education that makes an important influence in one???s life. Our primary object of introducing this system into elementary school is to raise future educators and students??? confidence and familiarity to farming. Inspire their concern about biodiversity, and rethinking the origin of food. The first step is to build teachers??? know-how and skill of synecoculture. After instructors might come to be greater acquainted with discipline operating and collect farming skill, the following step is to realise and fuse the agriculture training into the guides and paintings with students.

This studies proposes approach and layout of biodiversity understanding constructing in agricultural training, grade by grade overcoming the issue and to layout a sequence of guides for college students in a sensible way. In addition, inside the agriculture training, the facts on plant boom can be gathered and analyzed with statistical tools.

Agricultural biodiversity is critical to human survival and the sustainability of agroecosystems. Yet, many college graduates have best constrained competence on this field. To cope with this understanding gap, Bioersity International works with agricultural universities and networks to combine agricultural biodiversity into curricula and fortify institutions' ability to train the subject.

Continued genetic erosion and demanding situations of feeding the arena with the aid of using 2050 has led scientists and coverage makers to step up their paintings on agricultural biodiversity. For example, FAO's Commission on Genetic Resources for Food and Agriculture video display units the reputation of the arena's plant, animal and woodland genetic assets and informs coverage makers on such trends. Agricultural biodiversity is a thematic programme below the Convention on Biological Diversity (CBD). Knowledge of agricultural biodiversity is important to knowledge the influences of, and variation to, weather alternate and variability. Food structures processes that use agricultural biodiversity to enhance vitamins and fitness is gaining ground. Such new studies findings and guidelines want to discover their manner into the schooling system.

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