

Development of the arboretum educational program linked to elementary school science curriculum based on SDG15

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This study aimed to develop an arboretum educational program for elementary school students (3rd–6th graders). The program's goal was to raise awareness about the importance of ecosystem conservation and to foster knowledge to achieve the UN Sustainable Development Goal 15 (SDG 15). The program was developed by analyzing research trends in science curriculums and sustainable development education programs in elementary schools in Korea. The research results are as follows. First, the developed educational program allowed students to continuously attend the arboretum education program step by step for a total of 6 sessions. Second, the program was composed of contents linked to what they learnt from science curriculums at the elementary school. Third, we could explore the interrelationships among the various organisms that live in the arboretum by linking them with the economic, social, and environmental aspects of the sustainable development concept. Fourth, 3rd–4th graders were focused on the life cycles of living things, and 5th–6th graders gradually broadened their comprehension of the significance of living organisms through the use of biological resources. This enabled students to explore the connection between living things and sustainable practices for the future.