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Interactive Software Tools for the Study of Specific Biodiversity

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SUMMARY

Biodiversity represents the variety and variability of living organisms, of ecological complexes, being therefore a measure of variation in genes, species and ecosystems.[1] The inner and interspecific relationships inside ecosystems are very complex and of different types: feeding, reproduction, dissemination and defense relationships, so that the disappearance of a species can cause huge ecological imbalances. The knowledge of biological diversity to preserve and protect the species is one of the major objectives of environmental education. The study of biodiversity is a complex process and involves combining traditional teaching methods: observation, modeling, explanation, study visits, with the modern ones: educational software, problem-solving, team research projects. Modern methods of teaching and learning with educational software provides a large amount of knowledge well organized and structured, they form of operational expertise

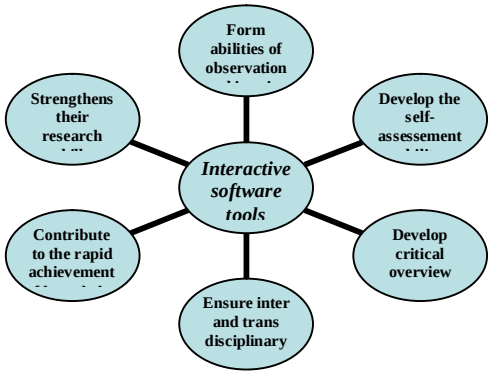

Fig. 1. Interactive software tools

in various fields of knowledge, allowing simulation of processes and phenomena difficult or impossible to be directly accessed. E- Learning used for the study of specific biodiversity by means of online tools meant to identify species, facilitates learning by developing the observation capacity, by strengthening knowledge and intellectual skills (Fig. 1).

The interactive educational tools [2] represent innovative educational solutions, focused on students, replacing traditional identification keys and recover bodies such interdisciplinary character: digital literacy, the concepts of plant morphology, systematic botany. The modern and accessible design makes the learning of the main morphological characteristics of living organisms easier, allowing the correct identification and recognition of species studied.

Keywords: biodiversity, e-learning assessment, interactive software tools

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