

Місце та роль екологічної освіти у формуванні свідомої молоді // Place and role of environmental education in the formation of conscious youth

The power of ecology education in solving water ecosystem problems

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Water ecosystems face numerous challenges due to human-induced factors such as pollution, habitat destruction, and climate change. Traditional approaches to water management often focus solely on technical and engineering solutions. However, the emerging field of ecology education recognizes the need for a holistic understanding of water ecosystems and the incorporation of ecological knowledge into educational programs. Investigation of the role of ecology education as a catalyst for solving water ecosystem problems by empowering individuals and communities with the knowledge and skills needed to make informed decisions and take responsible actions is very important nowadays.

Ecology education plays a crucial role in transforming individuals' understanding of water ecosystems. Effective educational strategies such as experiential learning, citizen science initiatives, and community engagement have demonstrated significant positive impacts on participants' ecological literacy and their willingness to engage in environmentally responsible behaviors. Case studies highlight the successful implementation of environmental education programs in different contexts, showcasing their potential to mitigate water ecosystem problems by promoting conservation practices and enhancing ecosystem resilience.

The power of ecology education lies in its ability to bridge the gap between scientific knowledge and societal actions, facilitating a deeper understanding of the intricate relationships within water ecosystems. Additionally, the integration of environmental education into formal curricula and the expansion of informal educational initiatives can enhance its impact and promote long-term sustainability in water ecosystem management.

By equipping individuals with ecological knowledge, fostering a sense of environmental responsibility, and promoting sustainable behaviors, ecology education can contribute to the preservation and restoration of water ecosystems. Educators and practitioners should prioritize the integration of environmental education into educational systems and environmental management frameworks to harness its full potential and pave the way for a more sustainable future.

Textual databases: application in biology

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Consecrated biological databases are overwhelmingly reliable on nucleic or protein sequences. Even though, these databases offer extensive knowledge regarding environmental bacterial diversity, their sequential aspects in itself hinder her capabilities. One cannot build a sequential database based on abstract topic, which can be ranging from *"What's the most discussed taxa in the literature?"* to *"Which chromatographic methods were implied in petroleum microbiology?"* On the other hand, textual databases represent an alternative which can solve this problem. Textual databases are built using curated raw text found in already published articles. It means that one can build any kind of database based on any kind of abstract topics.