



INCLUSIVE EDUCATION IN BIOLOGY TEACHING

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Abstract: *The article provides information about the requirements for a modern teacher, the technologies needed to improve the effectiveness and application of the lesson, information aimed at ensuring the effective use of modern technologies by a modern teacher, information about inclusive education*

Key words: *modern, technology, teacher, interactive whiteboard, educational platforms, Google Classroom, Moodle, edmodo, electronic assessment, Kahoot, Quizizz, mentimeter.*

In the following years, various modern requirements are imposed to improve the quality of the lesson from a modern teacher. These requirements are aimed at improving educational efficiency, improving students with advanced knowledge and skills, and ensuring the effective use of modern technologies. In improving the effectiveness of the lesson, a modern teacher should know the following technologies and apply them in the course of the lesson: using interactive whiteboards and educational platforms (Google Classroom, Moodle, Edmodo), working with artificial intelligence and virtual laboratories, creating online resources and video textbooks, checking knowledge through electronic assessment systems (Kahoot, Quizizz, Mentimeter). Also students should be able to apply a positive-differential approach and individual Education, the teacher should approach students with different abilities and needs, including inclusive education methods - work with children with special needs, differential approach - give assignments suitable for strong and weak students, skill - based teaching-develop



not only theoretical knowledge, but also practical skills, competency-based approach.

Due to the individual characteristics of students in biology classes, improving the effectiveness of the lesson does not cause much difficulty, due to the fact that science is associated with nature, living organisms, it is possible to widely use action games, role-playing technologies, virtual laboratory, audio, visual electronics. Also, biology teachers themselves must have specific educational methodologies and approaches. Inclusive education serves to reduce discrimination in society, realize the capabilities of each child and ensure that they become members of an equal society. The main thing is to achieve the full involvement of all students, mainly children with special needs, in the course of the lesson.

This requires the teacher to adapt the learning environment in the organization of the lesson, for example; adaptation of classroom and educational equipment for students with limited physical capabilities – Organization of lower scores, compatible microscopes, capital letter materials; for students with visual impairment-Braille, preparation of audiomaterials, use of relief diagrams; for readers with hearing problems-the use of presentations, written materials and a gesture translator, roller and action games.requires the teacher to adapt the learning environment in the organization of the lesson, for example; adaptation of classroom and educational equipment for students with limited physical capabilities – Organization of lower scores, matching microscopes, capital letter materials; for students with limited vision-Braille alphabet, preparation of audiomaterials, use of relief diagrams; for readers with hearing problems-the use of presentations, written materials and a gesture translator, roller and action games.

In improving the assimilation of lesson materials by students of various possibilities from the lesson process, it is effective to use such methods as multisensory methods, laboratory training, visual materials, explaining the structure or cellular structure of an organism through relief, 3D models. Also,



inclusive education requires great skill, creativity from the teacher, while; a differential approach depending on the subject section, that is, giving different assignments for children with different abilities, explaining difficult topics in simpler language, giving stronger students more complex tasks in independent work, applying a simpler approach to others, ensuring that students help each other through teamwork.

The modern teacher is required not only to teach, but also to increase the readiness of students for life, to teach them through innovative approaches.

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