

ABSTRACTS

UDC 37.015.3

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THE EFFECTIVENESS OF DIFFERENT TEACHING METHODS AT BIOLOGY LESSONS DEPENDING ON THE PSYCHOLOGICAL CHARACTERISTICS OF STUDENTS

The analysis of literature showed that in psychology and pedagogy, for the whole period of their existence as sciences, constant interest is focused on the study of relations between different students' psychological characteristics and their achievements in the various types of lessons.

Nowadays the study of individual peculiarities of students for more effective organization of the educational process remains relevant. We researched the effectiveness of student's assimilation of learning materials by using different teaching methods depending on learners' psychological characteristics. The generalization of the scientific views on the processes of individualization of educational work is presented in our article. **Adequate** understanding of the efficiency of the **educational** process on the basis of **mathematical** models for the prediction of academic achievement in biology is formulated. The importance of studying the psychological characteristics of students for the correction of individual approach to them during different types of lessons is proved.

In the study of relations between different psychological parameters and student's achievements it was established that the high indicators of correlation coefficients are typical for such characteristics as introversion, the overall level of attention and attention span; the average indicators are typical for the level of nervous system excitability and achievement; moderate indicators are typical for the extroversion and the general level of attention.

The study results and the developed mathematical model allow, to a certain extent, to predict academic achievements in biology.

Key words: lesson, type of temperament, degree of extroversion and introversion, the level of excitability of the nervous system, the general level of attention and attention span, the efficiency of the educational process, achievement.