

Abstract

The main idea and the aim of the Diploma Thesis is to point out the importance of applying models in the teaching natural history, and to prove whether models positively contribute not only to the activation of students, but also to the increase of their cognitive knowledge. The theoretical part of the Diploma Thesis is focused on the student's attitude towards working with models, on the pedagogical and psychological resource for integrate models into teaching and the model themselves. On their classification, properties and didactic function. The second, practical part to the Diploma Thesis presents proposals for specific models that were created and applied during teaching at a secondary school in Týniště nad Orlicí. Diploma Thesis also contains a comparison of the results of students who did not have the opportunity to work with the model and with students who participated in its creation. In addition, the Diploma Thesis includes research of the attitudes of these students towards working with models.