The Abstrakt:

The main target of the thesis is to complete and check the materials of inquiry-based education on the topic of ‘water in human life’. This thesis has been based on the ESTABLISH project and it is divided into the theoretical and practical part. The theoretical part deals with the characteristics of inquiry-based education, its benefits and history. It introduces us to the national and foreign project and works that treat this type of education.

The main passage of the thesis deals with the compilation and verification of materials for the inquiry-based activities within the thematic unit of ‘water in human life’. Part of the materials is methodical handbook for teachers and worksheets for individual activities. Further on this thesis includes the results of a questionnaire for students. The feedback reflected verification of the activities and course of materials content and suitability assessment. Consequently, the thesis also includes the application of the questionnaire for educators which evaluated the awareness of the inquiry-based education and its existing usage by biology teacher on Prague grammar schools. Practical part contains the analysis of the exercises focused on water in relation to humans in selected biology and natural science teaching books.

The Keywords:

Education, natural science, biology, inquiry-based education, ESTABLISH project, teaching unit, worksheet, questionnaire