

In this diploma thesis is compared effectiveness of problem-based and traditional education of high school students as an example of thematical unit "human respiration?". The effectiveness was compared with research work contains pretest,postttest I and postttest II. Student`s test`s results were statistical evaluated with two-sample tests and correlation analysis. This diploma thesis also contains preparations for both education alternatives and practical exercises (including presentation in PowerPoint) and czech and foreign autohors opinions of problem-based education and the effectivness of school.