

Abstract:

This thesis deals with the preconceptions and misconceptions of students in the field of heat and temperature. Here is an overview of textbooks for elementary and secondary schools with topics concerning heat and temperature. This thesis contains a brief characteristic of notions preconceptions and misconceptions, characteristic of Active Learning methods and characteristic of Interactive Lecture Demonstrations. This thesis also contains research of Students preconceptions and misconceptions about heat and temperature (mainly students of grammar schools). For this research was used HTCE test. Results of the research are processed for all students and for students of each class. There are three worksheets (translated from English), which should help with removing misconceptions.