

Title: Field Trip Activities to iQpark

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Abstract: This thesis deals with preparation of physically oriented worksheets and methodical sheets for pupils and teachers of secondary and high schools who visit the iQpark science centre. The theoretical part describes some teaching methods and forms and their classification. Further it sums up the results of research of materials for pupils and teachers that are published on the web sites of ten science centres in Europe and USA.

Six physical field trip activities to iQpark for high school students and four for secondary school students were prepared as a part of the thesis. One worksheet for pupils and one methodical sheet for accompanying teachers were prepared for each field trip.

A pilot study of the worksheets was carried out in cooperation with instructors of iQpark. 284 pupils from 20 different secondary schools and 407 students from 22 different high schools participated in the pilot study. Individual tasks were finalized on the basis of an analysis of pupils' responses that was carried out after the first testing.

A pilot study of the methodical sheets was also carried out. 18 pedagogical workers expressed their opinion by completing a questionnaire. The methodical sheets were finalized on the basis of collected comments and remarks.

Keywords: physics, science center, iQpark, non-formal education