

Title: Support for the Implementation and Explanation of Problematic Physics Experiments in Education at Primary School - Mini Case Study

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Abstract: This thesis aim is to refer and to acquaint with the problem of experiment in natural sciences at primary school. It identifies the obstacles encountered by primary school teachers when they use experiments in the education and it formulates principles that should guide authors of future materials dealing with experiments for primary school to make it easier for teachers to use them in education.

After the introduction dealing with the experiment in the curriculum and textbooks for primary education, interviews with 8 primary school teachers follow. Based on the interviews, a material containing 15 descriptions of experiments for primary school was prepared. It is the next part of the work. This is followed by the outputs from the involved teachers' feedback on the basis of which the material was modified and the conclusions and recommendations for other similar materials were formulated.

A CD with the thesis text in digital form, recordings of interviews with teachers, photos and videos illustrating the experiments and a questionnaire to get feedback is enclosed to the thesis.

Keywords: physics experiments, primary school, support of teachers