

Title: Historical experiments and their analogies as a part of physics education at upper secondary school level

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Abstract: This bachelor thesis is focused on activities related to historical experiments. With regard to the aim of the bachelor thesis, research on Czech and international sources concerning to the use of historical experiments in physics education was carried out. For further processing, Oersted's experiment and historical methods of measurement of gravitational acceleration and speed of light were selected. Activities related to these experiments were verified in physics lessons at various classes of grammar school (both upper and lower). According to lessons, these activities were modified. The proposals of these activities are presented in materials intended for physics teachers.

Keywords: experiment, historical experiment, physics, physics at secondary school