

The art of problem solving – physics and science Olympiads

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Abstrakt. In this article we discuss the possibility of using materials from physics and science Olympiads as teaching and learning resources in solving physics problem. The competence to solve problems is considered as important ability, since problem solving is fundamental part of learning physics. The process of Olimpiad team selection which includes competition at local, regional or national level require a deep understanding of fundamental physics concepts, and progress in problem solving. The Olympiad competitions are designed to challenge students with opportunity to develop their knowledge, thinking and problem solving skills, and ultimately to test their existing knowledge and problem solving ability, both theoretically and practically in real-world situations. Organized annually, most of the Olympiads are made up of two to three stages including written test (multiple choice questions/problems or theoretical problems) and practical test. Some relations between Olympiads and international studies as TIMSS and PISA are also considered.