

Teaching strategies to facilitate students' use of mathematics when solving physics problems

Thursday, 21 May 2015 08:00 (3 hours)

The complexity of physics has implications for the teaching of physics today. That physics is a very complex subject is shown from the research on problem solving and misconceptions that has dominated the field during the past 30 years. It is commonly known that students have difficulty for solving physics problems because of mathematic skill. In this study 120 high school physics students were given a set of pure math problems and a set of physics problems that require them to use the same mathematical processes. Presented here are the preliminary results that show a strong positive relationship between math and physics scores. We also introduce the teaching strategies that facilitate students' use of mathematics when solving physics problems.

Summary

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Session Classification: Poster-2

Track Classification: Physics Education