MODELING PHYSICS: A RESEARCH-BASED METHOD THAT SUPPORTS LEARNING

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ABSTRACT

The Modeling Physics pedagogy, developed by researchers at Arizona State University and elsewhere, applies proven strategies in a coherent framework to promote learning. Modeling has earned a distinction as one of the most effective materials for teaching physics. Modeling materials are also available in other topics including physical science, chemistry, mathematics. In a Modeling classroom, students are highly involved in the scientific process as they uncover key physics ideas themselves. With Modeling, students come to understand physics much more deeply than with typical methods. And it’s fun! We will present glimpses into how Modeling works in the classroom and how students learn what it means to do science.