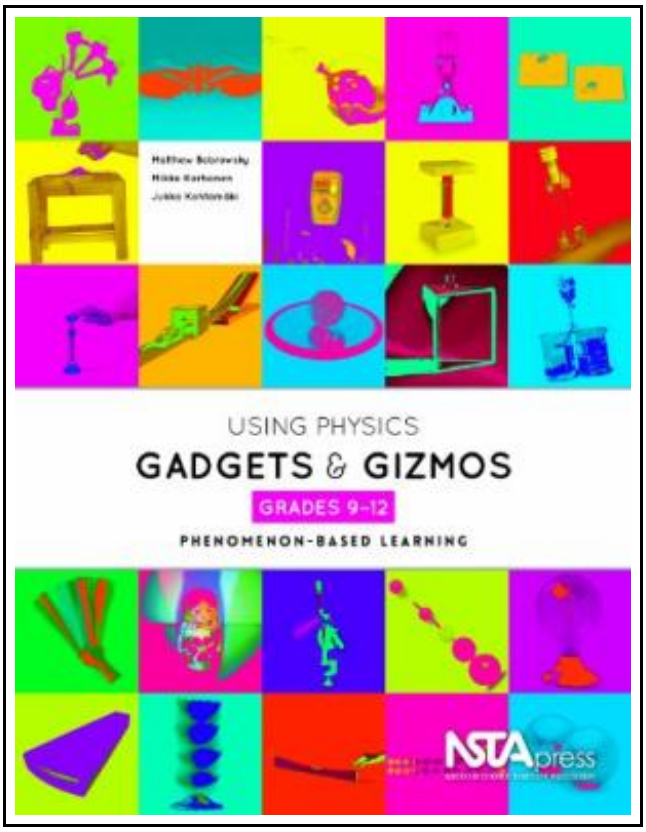
Using Physical Science Gadgets and Gizmos, Grades 9-12: Phenomenon-Based Learning



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Reviews

It is great and fantastic. I actually have read and so i am certain that i am going to going to go through once again yet again in the future. I realized this ebook from my dad and i encouraged this book to find out.

(Dr. Kayden Gerlach)

USING PHYSICAL SCIENCE GADGETS AND GIZMOS, GRADES 9-12: PHENOMENON-BASED LEARNING

National Science Teachers Association, United States, 2014. Paperback. Book Condition: New. 274 x 211 mm. Language: N/A. Brand New Book. What student--or teacher--can resist the chance to experiment with Rocket Launchers, Drinking Birds, Dropper Poppers, Boomwhackers, Flying Pigs, and more? The 54 experiments in Using Physics Gadgets and Gizmos, Grades 9-12, encourage your high school students to explore a variety of phenomena involved with pressure and force, thermodynamics, energy, light and color, resonance, buoyancy, two-dimensional motion, angular momentum, magnetism, and electromagnetic induction. The authors say there are three good reasons to buy this book:To improve your students thinking skills and problem-solving abilities.To get easy-to-perform experiments that engage students in the topic.To make your physics lessons waaaaay more cool.The phenomenon-based learning (PBL) approach used by the authors--two Finnish teachers and a U.S. professor--is as educational as the experiments are attention-grabbing. Instead of putting the theory before the application, PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why. Students engage in the activities not as a task to be completed but as exploration and discovery. The idea is to help your students go beyond simply memorizing physical science facts. Using Physical Science Gadgets and Gizmos can help them learn broader concepts, useful thinking skills, and science and engineering practices (as defined by the Next Generation Science Standards). And--thanks to those Boomwhackers and Flying Pigs --both your students and you will have some serious fun.

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