



## USING PHYSICAL SCIENCE GADGETS AND GIZMOS, GRADES 3-5: PHENOMENON-BASED LEARNING



National Science Teachers Association. Paperback. Book Condition: new. BRAND NEW, Using Physical Science Gadgets and Gizmos, Grades 3-5: Phenomenon-Based Learning, Matthew Bobrowsky, Mikko Korhonen, Jukka Kohtamaki, Break out the Velocity Radar Guns and Super Solar Racer Cars - then let the discovery begin! Using Physical Science Gadgets and Gizmos, Grades 3-5, invites students to go beyond simply memorizing facts. Instead, they learn by experimenting with curiosity-piquing devices and doohickeys. The contraptions are part of 30 activities relating to eight broad areas of physical science, such as speed, friction and air resistance, and electric circuits. Like the Gadgets and Gizmos books for middle and high school, this book uses the phenomenon-based learning (PBL) approach to encourage students to experience how gadgets work and then figure out why. Instead of putting theory before application, students go hands-on to learn broader concepts, useful thinking skills, and performance methods (as defined by the NGSS). And thanks to Air-Powered Projectiles and plasma globes, students have fun, too.



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