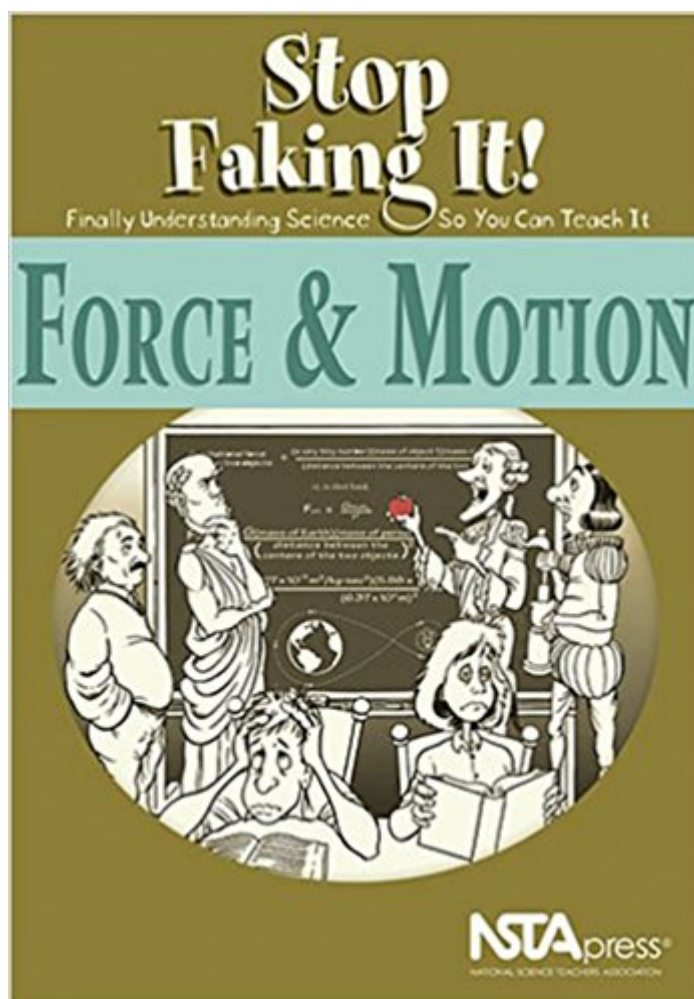


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Force And Motion: Stop Faking It! Finally Understanding Science So You Can Teach It



Synopsis

Intimidated by inertia? Frightened by forces? Mystified by Newton's law of motion? You're not alone and help is at hand. The *Stop Faking It!* Series is perfect for science teachers, home-schoolers, parents wanting to help with homework all of you who need a jargon-free way to learn the background for teaching middle school physical science with confidence. With Bill Robertson as your friendly, able but somewhat irreverent guide, you will discover you CAN come to grips with the basics of force and motion. Combining easy-to-understand explanations with activities using commonly found equipment, this book will lead you through Newton's laws to the physics of space travel. The book is as entertaining as it is informative. Best of all, the author understands the needs of adults who want concrete examples, hands-on activities, clear language, diagrams and yes, a certain amount of empathy. Ideas For Use Newton's laws, and all of the other motion principles presented in this book, do a good job of helping us to understand, explain, and predict the world around us. We can use them to get to the Moon, design roller coasters, and develop safety regulations for cars. However, there are situations in this book where all the motion stuff is just plain wrong-- as a result of Albert Einstein's corrections to the law of motion--which will be addressed in another *Stop Faking It!* book. Additional Info Science Discipline: (mouse over for full classification) Acceleration Friction Gravity Inertia Mass Newton's laws of motion Speed Vectors Velocity Experimenting Using mathematics Intended User Role: Curriculum Supervisor, Elementary-Level Educator, Middle-Level Educator, Parent, Professional Development Provider, Teacher Educational Issues: Classroom management, Curriculum, Informal education, Inquiry learning, Instructional materials, Professional development, Teacher content knowledge, Teacher preparation Contents Preface SciLinks Chapter 1: Newton's First One Chapter 2: In Which We Describe Motion and Then Change It Chapter 3: Newton's Second One Chapter 4: There's No Such Thing as Gravity The Earth Sucks Chapter 5: Newton's Third Chapter 6: Round and Round and Round In the Circle Game Chapter 7: To the Moon, Alice! Glossary Index

Book Information

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Customer Reviews

If I only knew then, what I know now. This past school year, I was asked to teach my fifth graders a science unit on Motion and Design. Having very little physical science content knowledge, I was uncomfortable answering any questions throughout the unit. I just wish I would have known about this book before. This book is written in an easy-to-understand and often humorous manner. Each chapter contains a simple experiment with household items followed by a straightforward explanation of the science concepts behind the experiment. Thanks to this quick read, I have a greater understanding and more confidence in my ability to teach Newton's Laws of Motion.

--Reviewed by: Heather S on June 20, 2009 Teach Force and Motion with Humor. If you are seeking a book to build background knowledge and conceptual understanding of force and motion, look no further. William C. Robertson covers all the bases, including simple object lessons, with delightful humor. You will be thrilled with this book, and your students will really understand and not need to "fake it" at all! --Reviewed by: Karen McCollister (McKinney, TX) on July 15, 2008 I enjoyed the author's humorous way of presenting something so serious. It is inquiry build (except the given answers). I used the activities presented by the author to give as many opportunities as possible to my students for building an operational definition for force or motion...In addition, this book gave me something we rarely do in the classroom...apply the concepts of force and motion outside of the classroom...Awesome book. --Reviewed by: Daniela Thornton (Colbert, WA) on November 6, 2007

These books are great for teachers and parents. I was able to understand physics concepts more clearly after reading these books. This is definitely something every science teacher should have in their library.

Not quite what I expected but good for anyone who has very little knowledge of the subject matter.

This book was very useful as a teacher resource. The information is clearly written and presented along with some experiments that were easy to put together in my classroom.

A fun way to learn or brush up on Newtonian physics. I recommend this book to anyone interested in physics.

Great product, service and I would recommend it to friends.

So helpful

Thanks so much for the perfect book. Even though it was listed as used it is in perfect condition.

I've never even come close to understanding even one of Newton's laws. I only made it through Physics in college because my brother-in-law is a science whiz, and I took the course over the internet. I am so happy to have come across this book though. For the first time in my life, I think I get it! Robertson's explanations address all of my (to what some people may believe) silly questions respectfully - as if I am the one who is logical for questioning and not grasping it! He explains the rationale behind the concepts in a humorous (sometimes laugh out loud) way - and I walked away wishing I could take a stab at that college physics class once more.

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