



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

William C. Robertson

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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

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