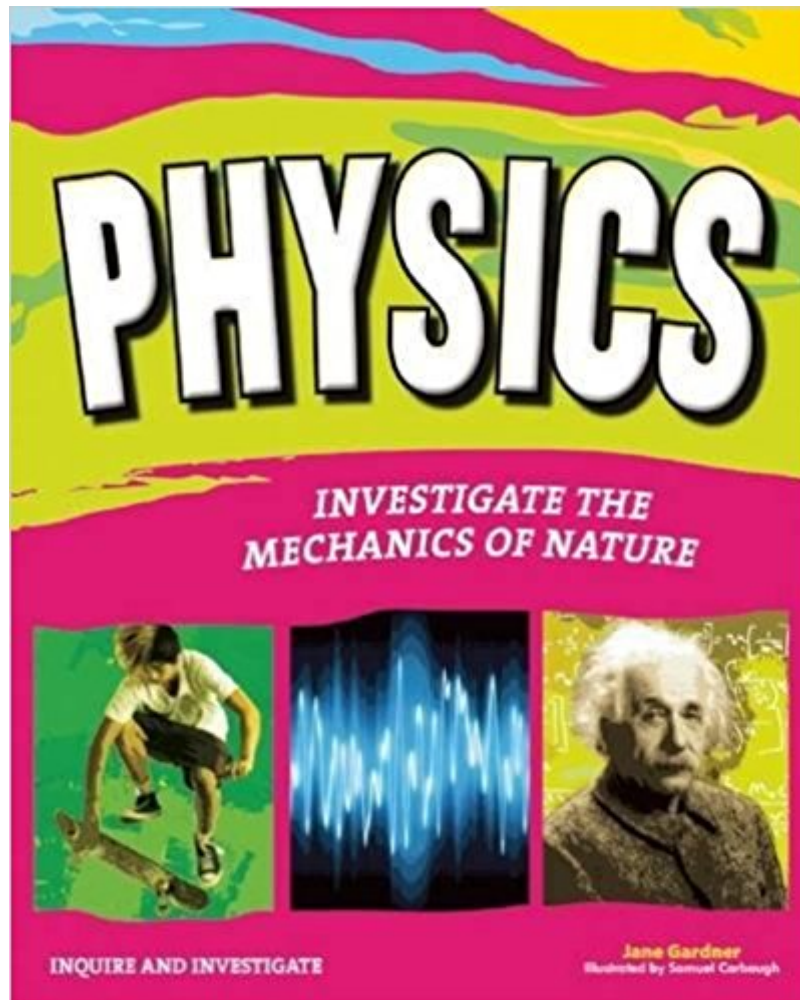




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PHYSICS: INVESTIGATE THE FORCES OF NATURE (Inquire And Investigate)



Synopsis

Have you ever noticed that the physical world works in certain ways? Skateboarders use force and motion to perform tricks. If you jump up as high as you can, you'll quickly fall back to the ground. Baseball players use gravity to bring the ball back down when they throw it. When you flip a switch, electricity powers your toaster. Rock bands use electricity to put on a show. The fascinating science of physics helps you understand why forces, motion, gravity, electricity, light, and sound work in predictable ways. Combining inquiry-based activities with physics topics, *Physics: Investigate the Forces of Nature* features graphic novel illustrations, fascinating sidebars, youtube links, and a glossary of important vocabulary to illuminate the complex world of physics and bring it to life. Projects include designing a skateboard park that maps the forces at work on the skateboarder and the skateboard, and creating a stage design for a rock band that places electric current where it is needed. Additional materials include a timeline, a list of current reference works, and Internet resources. This title meets Common Core State Standards for literacy in science and technology; Guided Reading Levels and Lexile measurements indicate grade level and text complexity.

Book Information

Lexile Measure: 900 (What's this?)

Series: Inquire and Investigate

Hardcover: 128 pages

Publisher: Nomad Press (July 15, 2014)

Language: English

ISBN-10: 1619302276

ISBN-13: 978-1619302273

Product Dimensions: 0.8 x 8.2 x 10.5 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,152,817 in Books (See Top 100 in Books) #26 in [Books > Teens >](#)

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Age Range: 12 - 15 years

Grade Level: 6 - 10

Customer Reviews

Physics: Investigate the Mechanics of Nature Publishers Weekly"Part of the Inquire and Investigate series, this interactive introduction to physics aims to give readers a working understanding of such topics as motion, electricity, and magnetism, presented through comics-style panels, allusions, and experiments. . . Physics computations are kept to a minimum, with the focus instead on providing a general familiarity with overarching ideas and sparking interest through hands-on methods."Swon Libraries Recommendsâ •this an excellent choice for students interested in or studying physics in middle grade science."National Science Teachers Association Recommends“. . . The investigations will make ‘physics come aliveâ™ for students with the real life applications. The projects would be perfect for science fairs, classroom projects, and for parents to complete at home with children. There is a complete glossary and resource guide including websites, books, and periodicals. The content supports the NGSS Standards. . .This book is a well–written resource for classroom teachers, students, and parents.â •Daniel Michael, M.Ed., PMP, Manager, Learning Design and Development“I really enjoyed the approach the book takes to introducing physics concepts to middle school students. The book is relational, engaging, and promotes scientific investigation.â •Marla Conn, Educational Consultant“A+++! This title was very well thought out, with a great flow and sequence and amazing text features. With QR codes that are engaging and relevant, Physics: Investigate the Mechanics of Nature offers real-world critical thinking and application. I love this title!â •Andy Marquis, High School Physics and Chemistry Teacher“Both a valuable supplemental text for mid-level educators and a call to curiosity for kids who wonder where their interests intersect with the world of physics.â •Praise for Music: Investigate the Evolution of American SoundSchool Library Journal"This overview is a STEAM advocate's delight. …an admirable synopsis of the multicultural history of American music.""Incredibly written, (The Everything Kids' Geography Book) is not only educational, but entertaining. Jane P. Gardner, with a degree in geology, uses her knowledge to put together an amazing tool for parents and educators to buy for their children." — Kristina Nelson, Helium

Have you ever noticed that the physical world works in certain ways? When you push an object it moves. Skateboarders use force and motion to perform tricks. If you jump as high as you can, you'll quickly fall back to the ground. Baseball players use gravity to bring the ball back down when they throw it. The fascinating science of physics helps you understand why forces, motion, gravity, electricity, magnetism, light, and sound work in predictable ways.Physics: Investigate the Mechanics of Nature features graphic novel illustrations, interesting sidebars, youtube links, and a glossary of important vocabulary to bring the complex world of physics to life. Inquiry-based, age-appropriate

projects include designing a skateboard park that maps the forces at work—both on the skateboarder and on the skateboard—and creating an electroscope to detect electric charges around your house or school. Physics can be fun!

Very student friendly. Looks and reads like a textbook at times with references to things to do in your classroom and worksheets. However there is no teachers guide to use with this book. The video links are nice but I wonder if they will stay active as the book gets older.

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