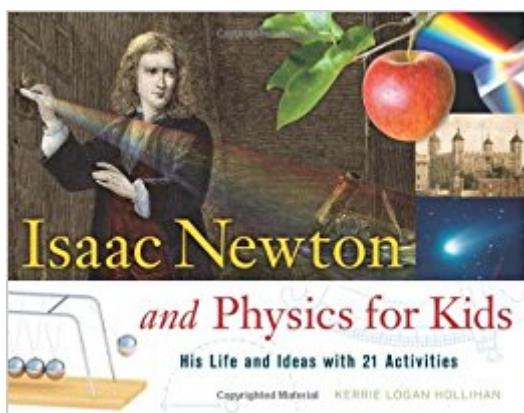


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# Isaac Newton And Physics For Kids: His Life And Ideas With 21 Activities (For Kids Series)



## Synopsis

Isaac Newton was as strange as he was intelligent. In a few short years, he made astounding discoveries in physics, astronomy, optics, and mathematics—yet never told a soul. Though isolated, snobbish, and jealous, he almost single-handedly changed the course of scientific advancement and ushered in the Enlightenment. Newton invented the refracting telescope, explained the motion of planets and comets, discovered the multicolored nature of light, and created an entirely new field of mathematical understanding: calculus. The world might have been a very different place had Newton's theories and observations not been coaxed out of him by his colleagues. *Isaac Newton and Physics for Kids* paints a rich portrait of this brilliant and complex man, including 21 hands-on projects that explore the scientific concepts Newton developed and the times in which he lived. Readers will build a simple waterwheel, create a 17th-century plague mask, track the phases of the moon, and test Newton's Three Laws of Motion using coins, a skateboard, and a model boat they construct themselves. The text includes a time line, online resources, and reading list for further study. And through it all, readers will learn how the son of a Woolsthorpe sheep farmer grew to become the most influential physicist in history.

## Book Information

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Age Range: 9 - 12 years

Grade Level: 4 - 7

## Customer Reviews

Grade 4-7 •An opening time line commences with the 1642 marriage of Newton's parents and closes with his death in 1727, and a general introduction describes the man and the times in which he lived. The text touches on Newton's childhood in Woolsthorpe, his studies at Cambridge, which led to his three laws of motion, and his time as master of the Royal Mint and president of the Royal Society. The activities elucidate, for example, concepts in mathematics ("What Are the Odds?") and physics ("Create Optical Illusions"), and reveal more historical details. For example, in a section on the 17th-century plague, readers are provided with instructions on how to make a mask like those worn by doctors of the time. The activities will generally not be suitable for science fairs, but are likely to engage readers. Lengthy sidebars provide additional information about pertinent subjects ("Comets," "Churches, Kings, and Freedom of Speech") as well as individuals and events that influenced Newton's work. The writing is clear and detailed, but is best suited for motivated readers. Black-and-white illustrations on every spread consist primarily of reproductions of art and of scientific diagrams. Some of the further-reading suggestions, including two tiles by Newton, are for adults. This will be a handy supplement to a physics curriculum and would be a useful selection for school and public libraries. •Maren Ostergard, King County Library System, Issaquah, WA Copyright © Reed Business Information, a division of Reed Elsevier Inc. All rights reserved.

"Hollihan introduces readers to the scientific brilliance, as well as the social isolation, of this giant figure, blending a readable narrative with an attractive format that incorporates maps, diagrams, historical photographs, and physics activities." •Booklist"Written for children, this book is also a great resource for teachers and parents." •Connect"Sanitized, sculpted, and politically correct stories of human luminaries are typically fed to schoolchildren. Author Kerrie Logan Hollihan, however, offers middle-grade readers a refreshing and comprehensive look at the man touted as the greatest scientist who ever lived." •BookLoons

This is the kind of book that you don't want to have in electronic format. A hard copy would make it easier to flip back and forth. The historical background that lead to Newton was great, but I was disappointed that many of the activities were crafts (i.e. making a plague mask) vs. getting down to some experiments on motion and gravitation. Another activity was to make a "junk" notebook, which is essentially a science notebook. Another wasted activity as we already have lab books. On the positive side, there was a lot of information that I could use in teaching Newton's laws of motion, so it did have some use. If you are looking to teach your kids about Newton, this is not a single source

of information. I would recommend the internet to supplement what you get here as there are so many great experiments out there that help solidify what they learn.

Great book, it did get attention of our 10 years old boy that is not easy these days of I-pads

Good

my son loves this book! Great for little budding scientists!!

Great book! Bought this as part of my son's 5th grade homeschool studies. We both loved reading through this book! He loves science and loves the added activities.

Very useful ! Appropriate for brilliant 9 year olds. Interesting and fun because of the experiments. Highly recommended !!!

Great for kids

important and Clear

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