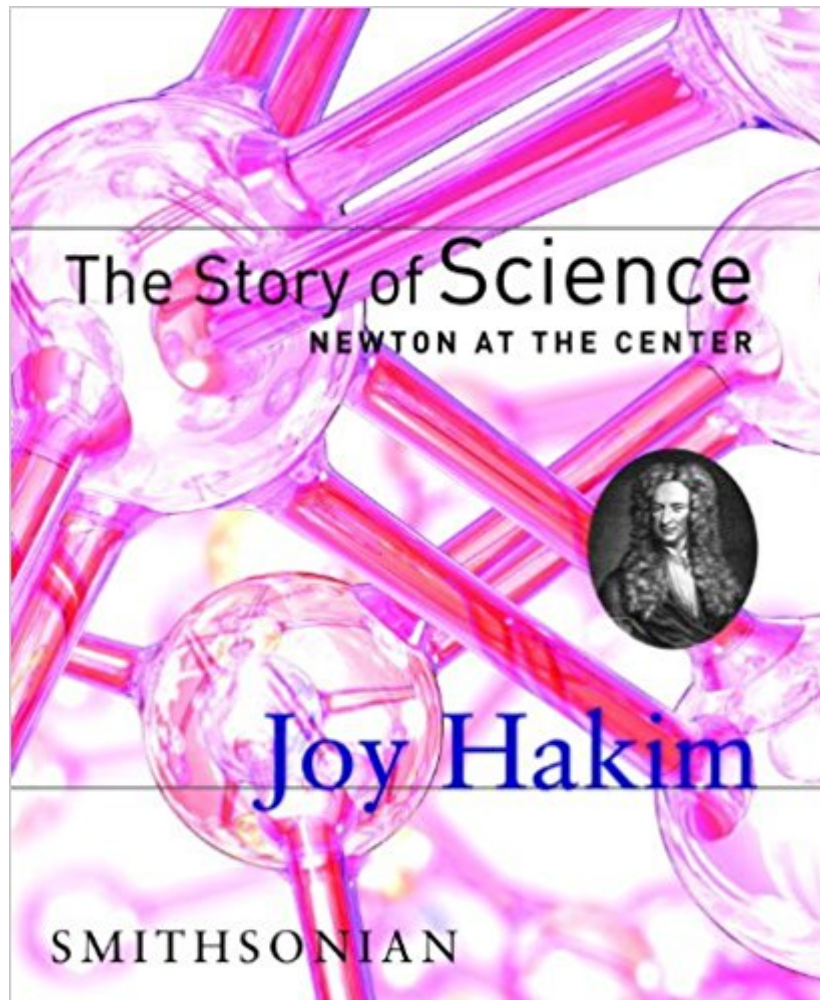




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The Story Of Science: Newton At The Center



Synopsis

In volume two, students will watch as Copernicus's systematic observations place the sun at the center of our universe—•to the dismay of establishment thinkers. After students follow the achievements and frustrations of Galileo, Kepler, and Descartes, they will appreciate the amazing Isaac Newton, whose discoveries about gravity, motion, colors, calculus, and Earth's place in the universe set the stage for modern physics, astronomy, mathematics, and chemistry. In the three-book *The Story of Science* series, master storyteller Joy Hakim narrates the evolution of scientific thought from ancient times to the present. With lively, character-driven narrative, Hakim spotlights the achievements of some of the world's greatest scientists and encourages a similar spirit of inquiry in readers. The books include hundreds of color photographs, charts, maps, and diagrams; informative sidebars; suggestions for further reading; and excerpts from the writings of great scientists.

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Customer Reviews

Starred Review. Grade 7 Up—•In this second book in the series, Hakim introduces students to the great scientific minds of Copernicus, Galileo, Kepler, Newton, and others. Teachers will find anecdotal information to enliven their lessons; browsers will be fascinated by the sidebars and captioned illustrations that enhance the text or show related information. The detailed index makes finding specific individuals, theories, or inventions easy. In an easy, conversational style, the author speaks directly to readers, opening with, Read this book and you'll know more science than Isaac

Newton did. Full-color illustrations, reproductions, or other graphics appear on almost every page. A tremendous amount of research went into this volume and reading it will greatly increase students' understanding of the history and discovery of scientific theory and invention. Because of its size and weight, this title will need to be booktalked. Put it into the hands of science students who are eager to read beyond the brief snippets found in less comprehensive books. —Kathy Lehman, Thomas Dale High School Library, Chester, VA Copyright © Reed Business Information, a division of Reed Elsevier Inc. All rights reserved.

Gr. 7-10. In the second volume of a planned six-book series, Hakim surveys the interlocked histories of early modern astronomy, physics, mathematics, and chemistry--from the invention of printing to the discovery of radioactivity at the end of the nineteenth century. This is a lot of territory to cover, and particularly with respect to the explosion of research in the eighteenth and nineteenth centuries, Hakim introduces so many major figures, in such rapid succession, that they aren't always easy to keep straight--despite a number of piquant biographical tidbits. Furthermore, her main narrative is surrounded by such an array of marginal glosses, explanations, examples, and experiments, in various typefaces, that it sometimes seems to intrude on rather than unite the material. Still, her animated discourse lends immediacy to every breakthrough, and this outing, though overstuffed, should be considered essential reading for its elucidation of difficult concepts, unfailingly relevant diagrams and illustrations, and engaging portraits of individuals caught up in a whirl of world-altering insights into what makes the universe tick. An annotated resource list is appended. John Peters Copyright © American Library Association. All rights reserved

I love the way Hakim weaves in history and personal stories and purchased all three books! In my opinion does a better job than Tiner's series. Can't comment on Bauer's series as they came out later than Hakim's and I'm not familiar with them. The reason I didn't rate these books 5 stars are because the pages are too busy with information snippets - may be hard for many readers to stay with the main reading. Also, please be aware that even though the title is "The Story of Science" is doesn't cover biological and earth sciences so it really isn't the "full" story of science. I used traditional approach for homeschooling middle school aged children and these 3 books worked really well as my science spine, supplementing with the library, YouTube and other resource. Even though I'm done with homeschooling, have retained these books in my library as they are still fun to pick up and read. My sister who recently visited with her elementary kids picked it up and read some of the stories with her kids before bed. Given the way the book is constructed - might be good for a

waiting room environment or bathroom reading.

I love, love, love this book and this series. I'm taking a couple of years off to home school my daughter and I am just floored by how fabulous this book is at every turn. I hold two degrees from MIT and I so wish I had had this class before I went. I teach a weekly class with 3 other home school kids and they love it. We are using the Johns Hopkins workbooks as well. In my class of 5th through 7th graders, we just finished the Law of Universal Gravitation and they all mastered the difficult concepts very easily. The book uses the history of science to build the concepts up over time. So Newtons work just seemed to flow naturally from Descartes and Galileo. And the historical narrative really makes all the science memorable. The stories really show us the people and their times. I was a little concerned about using a secular book for a Christian-based home school. But, I have been pleasantly surprised. Joy Hakim doesn't shy away from the religious controversy. I was surprised to learn that John Calvin spoke out against Copernicus, citing Psalms, "He has established the earth so that it shall not be moved." But I was equally surprised to learn that Copernicus, Galileo and Newton were all deeply committed to their faith. Because the book presents these things as historical facts, I think that both religious people and atheists can use this book to explore their beliefs and how they mesh with scientific inquiry. I wish we could get this entire series into the hands of every kid in this country. Well done, Joy Hakim! Can't wait for the biology text to come out.

We have the 3 volumes and my 10 year old loved them. This is the second volume and what I like the most about these books is that it brings in the whole picture. Much of typical science teaching is the nuts and bolts of what was discovered and how it applies to life now. But this book gives the perspective. Who discovered this first and why did or didn't it see the light of day? What mistakes were made as people were trying to understand different concepts? What it did for my daughter was give her the human perspective. Sometimes society is not ready to support pure science, sometimes inventions are accidental. But in all, it wasn't like these scientists said "poof" and now I know something that's in your textbook. A human who lived a life in a certain time period where the culture had these beliefs was able to come up with this concept. Awesome for kids who want an example of how learning takes place in the great thinkers.

Joy Hakim is very knowledgeable, not only of how science works, but also the way in which people learn best - through stories. There is not a great deal of straight science content in this book, but it certainly is a fantastic learning tool to help remember people and scientific pedagogy. This text

makes science history seem real and fresh, with the added bonus of literature and historical and mathematical factoids that connect science to the larger scope of knowledge and education.

I have read many a books on history of science and scientific developments. I did not believe the reviews I read about this series until I read it. This series does not hijack the human history of scientific pursuance to europe/greece on one end and Benjamin franklins america on the other. Its a real and authentic reflection of the way the subject has developed throughout the world.

Great! :)

This is a lovely book that tells history with a science perspective in a fun and interesting way. We are also using the student quest books and we are waiting to order the teacher workbooks. This book along with the student and teacher quest books and in addition our own hands on experiments makes a good science course!

Simply the most amazing book I have read on science. I wish I had this book while I was in high school thirty years back or at the least my science teacher had read it before he came to teach the class.

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