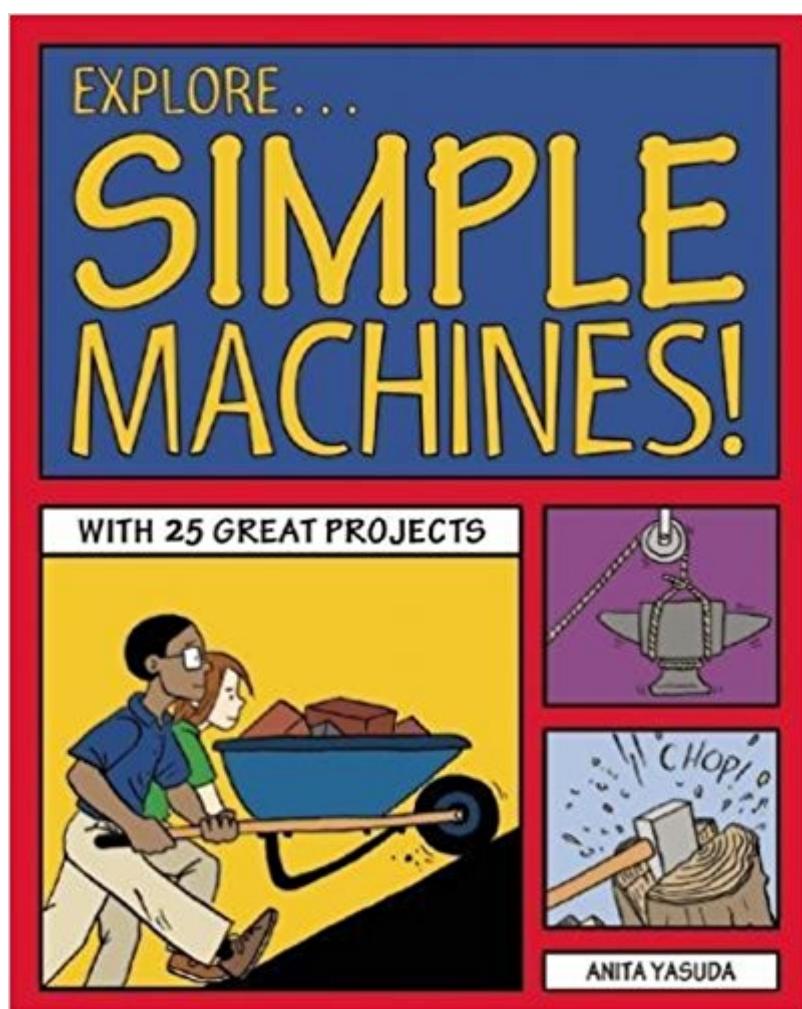


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# Explore Simple Machines!: With 25 Great Projects (Explore Your World)



## **Synopsis**

From zippers to the Pyramids, rolling pins to catapults, we are surrounded by simple machines. This book will amaze kids with the ingenuity they already possess and inspire them to look differently at the objects they use everyday. *Explore Simple Machines!* With 25 Great Projects introduces kids to the concept of mechanical advantage, and harnesses kid-power by inviting them to build machines of their own design. It opens their eyes to the diversity of machines in their lives, and sparks the imagination with challenge, humor, and achievable projects. *Explore Simple Machines!* dedicates a chapter to each of the six simple machines that were identified centuries ago: levers, inclined planes, pulleys, screws, wedges, and wheels & axles. Kids will develop analytical skills as they figure out where force is applied and what kind of work it generates.

## **Book Information**

Lexile Measure: 830L (What's this?)

Series: *Explore Your World*

Paperback: 96 pages

Publisher: Nomad Press; Act edition (October 1, 2011)

Language: English

ISBN-10: 1936313820

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Product Dimensions: 0.2 x 8 x 10 inches

Shipping Weight: 8.8 ounces (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 11 customer reviews

Best Sellers Rank: #390,927 in Books (See Top 100 in Books) #109 in Children's Books > Science, Nature & How It Works > Heavy Machinery #177 in Books > Children's Books > Education & Reference > Science Studies > Physics #192 in Books > Children's Books > Science, Nature & How It Works > How Things Work

Age Range: 6 - 9 years

Grade Level: Kindergarten - 4

## **Customer Reviews**

Winner of the Society of School Librarians International 2012 Honor Award for science books, grades K-6! Eclectic homeschool "a wonderful break from regular studies or just as an additional study for those who want to add a bit more to what their science curriculum already covers. *Explore Simple Machines!* makes a good starting point in introducing the simple machines that make

everyone's life simpler." Calliope Magazine"Explore Simple Machines! by Anita Yasuda includes among the 25 projects: make a helicopter, make a pulley, chopstick challenge, and a friction experiment. Keeping the readerâ™s interest throughout are &#147;Did You Knowâ• facts, &#147;Then and Nowâ• fascinating tidbits, and engaging sidebars."National Science Teachers Association"Want to make physical work easier? Could you push a wheel barrow up a hill? Could it be that the design of the wheelbarrow makes pushing easier? How about using a wedge or a pulley? From the front cover, this book invites the reader to explore simple machines. . . This is not your usual activity book. Written for the student, with inquiry in mind, the explanations are simple and easy to follow, and there is an explanation of what is happening and questions to extend the learning. I would use this book with young scientists in my class, and I would also put the materials in a center for young children to explore, make, and do. . . I honestly didn't think simple machines were fun or easy to understand. This book changed that for me and for my students."Children's Literature Review" Simple Machines are not simple, but they are common. What Yasuda does extremely well is introduce the abstract physics concepts of gravity, friction and force. She is also good at showing how we use simple machines in everyday life and her projects are fun and very doable. &#147;Simple machines have few or no moving parts,â• she writes in the introduction. &#147;They help us to pull, push, lift and divide. Your muscle power--not electricity or gasoline--makes them work.â• Yasuda writes clearly and energetically throughout the book. . . the projects are fun. Back matter includes a glossary, list of resources and index." BookLoons"Teachers with students in the lower grades and parents home schooling their children will want to check out this book."Booklist"This new entry in the Explore Your World series introduces the six simple machines in enough detail to include worm gears, all three kinds of levers, compound pulleys, and unusual examples such as boats (a type of wedge) and canal locks (an inclined plane). Yasuda writes in particularly clear, simple language, and intersperses her explanations with historical notes, jokes that even the target audience will find laughably lame (&#147;What did the apple say to the wedge? You split me up!â•) and 25 easy projects or demonstrations constructed from common materials. She also repeatedly urges readers to spot and classify the simple machines that are all around, encourages the use of a science notebook, and closes her discourse with descriptions of what inventors and engineers do. Illustrated with simple black-and-white cartoons and capped with well-considered lists of print and other resources, this makes a serviceable hands-on guide to the topic."Marla Conn, Educational Consultant&#147;Explore Simple Machines! provides well-organized informational text using important text features and simple, straightforward narrative that will enable students to gain knowledge in this area of study. The activities in this book are critical to making

connections between what the student has learned and how that affects their world. As students make these connections using hands-on projects, they internalize information. •

From zippers to the Pyramids, rolling pins to catapults, we are surrounded by simple machines. This book will amaze kids with the ingenuity they already possess and inspire them to look differently at the objects they use everyday. Explore Simple Machines! With 25 Great Projects introduces kids to the concept of mechanical advantage, • and harnesses kid-power by inviting them to build machines of their own design. It opens their eyes to the diversity of machines in their lives, and sparks the imagination with challenge, humor, and achievable projects. Explore Simple Machines! dedicates a chapter to each of the six simple machines that were identified centuries ago: levers, inclined planes, pulleys, screws, wedges, and wheels & axles. Kids will develop analytical skills as they figure out where force is applied and what kind of work it generates. This book meets common core state standards in language arts for reading informational text and literary nonfiction and is aligned with Next Generation Science Standards. Guided Reading Levels and Lexile measurements indicate grade level and text complexity.

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