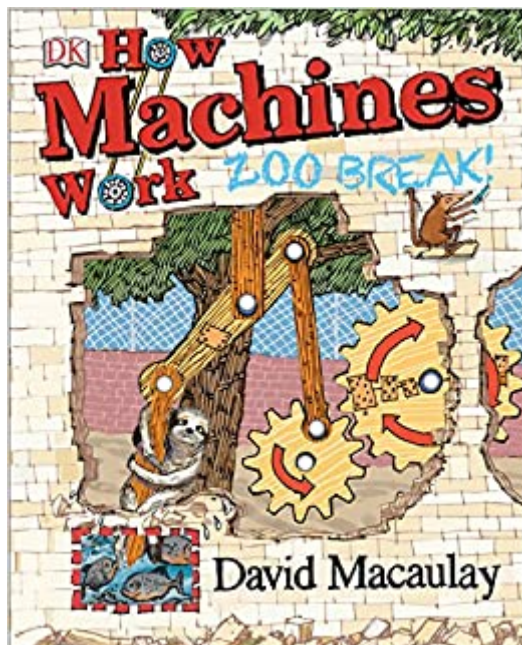


The book was found

How Machines Work: Zoo Break!



Synopsis

Award-winning artist David Macaulay introduces readers to his hilarious new creations, Sloth and Sengi, in *How Machines Work: Zoo Break!* Complete with a unique jacket with an interactive compound machine incorporating several of the simple mechanisms featured in the book, *How Machines Work: Zoo Break!* uses models and illustrations to demonstrate the technology of six simple machines: levers, pulleys, screws, inclined planes, wedges, and wheels. Follow the mad antics of Sloth and his sidekick Sengi as they try to find their way out of the zoo with the help of machines. Their efforts are brought to life through novelty elements including pop-ups, pull-outs, and lift-the-flaps, allowing readers to explore in greater depth how and why machines work. Spreads highlight the use of simple machines in everyday objects, such as scissors and clocks, mixers and whisks, bikes and brakes, while the story contains clear and simple text to engage the reader.

Book Information

Hardcover: 32 pages

Publisher: DK Children; Ina Nov edition (October 27, 2015)

Language: English

ISBN-10: 1465440127

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Product Dimensions: 8.8 x 1.2 x 11.1 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars 38 customer reviews

Best Sellers Rank: #208,217 in Books (See Top 100 in Books) #70 in [Books > Children's Books > Science, Nature & How It Works > Heavy Machinery](#)

Age Range: 7 - 10 years

Grade Level: 2 - 5

Customer Reviews

[How Machines Work: Zoo Break! Turn the gear in the cover to move Sloth up and down!](#) [View larger](#)

[Getting Leverage](#) [View larger](#) [View larger](#) [View larger](#) [Seesaw](#) [Can you succeed where Sloth and Sengi failed, by launching them over the fence with their new seesaw? Take Sloth and Sengi out of the pocket and slot together the arms at their bases. The Fence](#) [Prop the fence up by sliding the arms into the slots provided. Prepare for takeoff!](#) [Place](#)

our heroes on the seesaw, and tap, flick, or slap the other side to send them over the pop-up fence.

[The Complex Machine](#)

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[Escape?](#)

Sengi's latest plan is his most ambitious by far. A huge wooden contraption dominates the enclosure shown on this giant pop-up page. How exactly does it work? To find out, explore the page to see how these simple machines combine. Lift the flaps! Follow the numbered arrows, lifting flaps as you go. How many simple machines can you count along the way?

[More Interactive, Pop-Up Fun!](#)

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Not quite plain sailing Sloth and Sengi start piling whatever they can find from their enclosure against the fence. They're almost done when Sloth takes an unscheduled nap. Sengi is about to wake him when he realizes that Sloth's sleeping body has formed the last section of the inclined plane. Freedom is within reach! He leaps up onto Sloth's head... Open the pop-up and... The sudden movement causes the pile to collapse. Sloth and Sengi are buried in an avalanche of stuff. The noise alerts the zookeeper, who is not happy... he's the one who has to clean it up! A book inside a book! Sengi sees a book lying in the dirt just outside of the enclosure. One of the workmen must have left it behind. He reaches through the fence, grabs the book, and starts leafing through the pages.

[Wheels, Pulleys, and Complex Machines](#)

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[Wheel and Axle](#)

A wheel and axle consists of a disk (the wheel) with a thin cylinder

(the axle) attached to its center. When you apply an effort to one, a useful effect is produced at the other.

[Pulley Power](#) It's moving day for the zoo's star attraction, and a crane has been hired for the occasion. Cranes are complex machines that use pulleys, and a number of other devices, to lift very heavy loads, such as Sloth and Sengi's new neighbor. [Complex Machines](#)

Sengi realizes that the bicycle is made up of a few simple machines working together to make a complex machine. A bicycle uses screws, levers, wheels and axles, and gears to make getting around easier, faster, and safer.

"Youngsters will be eager to get their hands on this simply amazing book." [Booklist](#)

(Starred Review)"Expertly blending comedy with a substantive look at physics and mechanics."

[Publishers Weekly](#) (Starred Review)"With much use of flaps, pop-ups, and inset booklets, the author expands on the comical plotline with glimpses of construction machinery, hydraulics, and

several types of levers in action." [Kirkus Reviews \(Starred Review\)](#)"A vivid interactive introduction to simple scientific principles all neatly wrapped up in a story." [TheGuardian.com](#)"This ingenious, entertaining, sturdily built book is sure to get the wheels turning for young engineers-in-the-works." [Shelf Awareness for Readers](#)"As robust and inviting a physical book as you can possibly get." [The New York Times Book Review](#)"Illustrated with humor and affection|easily keeps the reader's attention." [BoingBoing.net](#)"In today's STEM-centric world, it can be difficult to sift through all the available STEM books and find the perfect introductory text for children| How Machines Work: Zoo Break! does just that." [The Children's Book Review](#)

Caldecott Medal award winner and MacArthur fellow David Macaulay has illustrated and written over 25 books for children. His most famous work includes *The Way Things Work* and *Cathedral*. His illustrations have been featured in popular, nonfiction books combining text and illustrations explaining architecture, design, and engineering.

I bought this book for my 6yr old son as a Christmas gift. It just recently arrived today, when I opened the box containing the book, I was immediately surprised to find that the gears and lever on the front cover of the book actually move! You turn the gear on the far right and everything else on the cover moves, the pages are also filled with various pop-ups and little tid-bits about the history of when, who, and why the simple machine was invented. Even I learned a few things from the book. I can't wait to give this book to my son, and I hope he will enjoy reading and flipping the pages as much as I did! P.s. - there's even a page that explains simple levers and lets the reader build a simple lever from the page inserts and launch things over a pop-up fence. So the reader can actually attempt and use the same machine that is being used by the characters in the Zoo that are trying to escape.

I love David Macaulay's work but most of it is above my 5 year old's head and most of his books are very matter-of-fact. This one introduces the concept of simple machines through the gripping (and hilarious) story of Sloth and Senghi's various attempts at going on the lam, with awesome pop-ups and interactive elements. My 5 year old laughed hysterically through the first reading and still finds it funny. He loves to play with the various mechanisms. I think the subject matter is a little advanced for him but we really enjoy reading the story together and he's internalized some of the simpler concepts. I also gave the book to my 6-year-old nephew and cemented my reputation as "the aunt

who sends the best books."

Fun book - I actually bought it for my daughter who's in college becoming an engineer. She got a big kick out of it!

My kids love this interactive book. Great for your little pint size engineer.

I bought this for my grandson, but the whole family loved it.

Purchased for a grandson. Simple explanations of basic machine principles.

My grandchildren are thoroughly enjoying this book.

My son's book was ripped down the spin very sad. Not worth the money.

[Download to continue reading...](#)

How Machines Work: Zoo Break! What Do Pulleys and Gears Do? (What Do Simple Machines Do?) (What Do Simple Machines Do?) (What Do Simple Machines Do?) Machines on a Construction Site (Machines At Work) Cranes (Machines at Work; Big Machines) We Bought a Zoo: The Amazing True Story of a Young Family, a Broken Down Zoo, and the 200 Wild Animals that Changed T We Bought a Zoo: The Amazing True Story of a Young Family, a Broken Down Zoo, and the 200 Wild Animals That Change Their Lives Forever Dear Zoo (Dear Zoo & Friends) The Zoo Crew - A Thriller (Zoo Crew series Book 1) The End Of Chaos: Break Away From Bad Habits, Addictions And Self Destructive Tendencies Before They Break You The Break Up Manual For Men: How To Recover From A Serious Break Up, Become Stronger and Get Back Into Life Coffee Break French 4: Lessons 16-20 - Learn French in your coffee break Break Away: Jessie on My Mind (Break Away series) Power Forward: Break Away 2 (Break Away series) Bath City Break Guide (City Break Guides) Mighty Monster Machines (Blaze and the Monster Machines) The Big Book of Blaze and the Monster Machines (Blaze and the Monster Machines) Mighty Monster Machines (Blaze and the Monster Machines) (Little Golden Book) Vintage Coca-cola Machines a Price and Identification Guide to Collectible Coolers and Machines AC-130H/U Gunships (Torque Books: Military Machines) (Torque: Military Machines (Library)) Strykers (Torque Books: Military Machines) (Torque: Military Machines (Library))

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