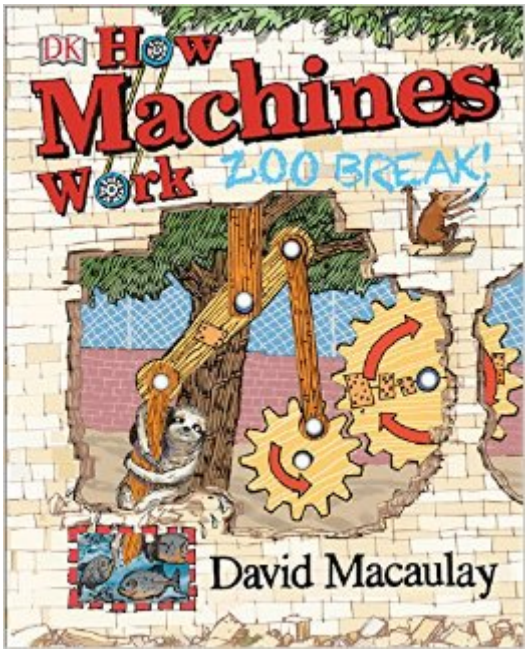
How Machines Work: Zoo Break!



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

ISBN-13: 978-1465440129

Product Dimensions: 8.8 x 1.2 x 11.1 inches

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

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (22 customer reviews)

Best Sellers Rank: #38,530 in Books (See Top 100 in Books) #21 inÂ 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 View larger View larger View larger 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! View larger View larger View larger 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 andÃ¢Â Â" 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 happyÃ¢Â Â"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 View larger View larger View larger 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.

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?) Dear Zoo Animal Shapes (Dear Zoo & Friends) 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 Buses (Machines at Work;

Transportation Machines) Machines on a Construction Site (Machines At Work) Off-Road Motorcycles (Machines at Work; Sports Machines) Mighty Monster Machines (Blaze and the Monster Machines) (Little Golden Book) Building Machines: An Interactive Guide to Construction Machines Mighty Monster Machines (Blaze and the Monster Machines) Time Out: Taking a Break from School, to Travel, Work, and Study in the U. S. and Abroad Be A PMP Ace In 30 Days: How I aced the PMP Exam in one attempt, without taking a break from work and how you could do it too! Making Work Work: The Positivity Solution for Any Work Environment Big Rigs (Bullfrog Books: Machines at Work) Wheels and Axles in Action (Simple Machines at Work) Cranes, Dump Trucks, Bulldozers: and Other Building Machines (How Things Work) Motorcycles (Bullfrog Books: Machines at Work) Motorcycles (How Machines Work) Machines at Work Board Book Machines Go to Work in the City