

Online Library How Machines
Work Zoo Break

How Machines Work Zoo Break

*Different animals display their
accompanying sounds, making for a
very noisy zoo. On board pages.*

David Macaulay's troupe of curious

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mammoths lead you through the basics of physics, biology, and chemistry in this unconventional and highly original guide to science. From the interior of an atom to the solar system and beyond, the mammoths seek to understand the science! These

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intrepid science demonstrators will go to incredible lengths to educate and entertain. They wrestle with magnets to understand their powerful force, make mammoth models of different materials explore what gives them mass, and step into a X-ray machine

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*to reveal the bones beneath their
woolly exterior.*

*Mankind is constantly facing
different challenges in our
dynamically changing world. What
we pretty much need is cooperation
and alliance to overcome the*

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problems we have to face. Our conflicts of interest and ideological opposition have to be put aside. Without a wide-scale social alliance we will not be able to find the answers to the questions that have properly arisen because of our

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irresponsible behavior. In the Middle Ages natural resources were so abundantly available that mankind's needs were pretty easily met. We had to do nothing else than to cut out of nature everything we happened to need in a specific moment of time.

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Mankind snatched the opportunity but did not really chew the cud. They took away what they wanted.

Nevertheless, with the onset of the industrial revolution, the rules of the game started to change. The energy output of the machines reached

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higher and higher levels, but at the same time, the rate of charge they exerted on the environment had also uninterruptedly increased. We opted for an "elegant" solution. We just simply hushed up the problem. For a long time, the protection of the

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environment had been a disregarded marginal field ignored completely by the political powers. Nevertheless, the environmental catastrophes warned us to take action in a very short while, but the fire extinguishing might have started too late; hence the operation

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of some of the energy-supplying systems produced an immense economic benefit for several lobby groups. Petrol, natural gas, and other common yet not really efficient sources of energy, which at the same time have had a deleterious influence

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on the environment, are constantly dwindling away. Fuel prices reach the stars. If we see a temporary price decrease, we take a deep breath. Nonetheless, this is nothing other than the end game. Remarkable changes are to come. If this does not happen

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or is delayed, a global catastrophe is expected to come. When might this downturn happen? What other sources can replace the petrol? For the moment, no one can answer these questions. Could anyone? According to some thinking the progress of

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history is not linear but cyclic. Many of the ideas had been born many centuries or even many millenniums ago in the heads of certain persons. Some of them put their ideas even on paper, or others might have built them. Who were they? If someone

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comes up with an idea that differs pretty much from the ordinary ones of his era, he cannot really be optimistic about a warm welcome. He is looked at as a weirdo at most. In the worst case he is burnt at the stake because of not having accepted the

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traditions. It is actually not worth going too far. In the past, the ones who were asking too many questions had to face the ecclesiastical or secular powers, whereas today these are replaced by the petroleum lobby. However, the end result is the same,

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unfortunately: a rented parcel in a quiet graveyard. Documents and experimental utensils are disappearing or are destroyed practically as a routine. Certain academic circles are declaring that "the idea is pure fantasy; this cannot be true because it

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contradicts the laws of nature!" Of course, they forget to mention what they exactly mean about "laws of nature" since "nature" or "universe" are boundless notions the full comprehension and mapping of which is impossible. Making use of

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our rules and laws we manage to get access to those parts about which we confidently state that we have managed to understand. Can we, however, talk about real comprehension? All our rules are based on semblances and

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simplifications. We want to humanize something that is totally independent of us. We overestimate our role. We abuse nature instead of serving it. Some recognized this problem in Hungary and abroad as well. You push a swing. Your brother pulls

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a wagon. Forces are at work all around you. But what exactly is a force? And how do forces act on different objects? Read this book to find out! Learn all about matter, energy, and forces in the Exploring Physical Science series—part of the

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*Lightning Bolt Books™ collection.
With high-energy designs, exciting
photos, and fun text, Lightning Bolt
Books™ bring nonfiction topics to
life!*

*Explore the mechanics of simple
machines by lifting levers, grinding*

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gears, flipping flaps, and more. Join Sloth and Sengi, two zoo animals who long to be free, as they put these machines to use. Pop-up and lift-the-flap illustrations help explain levers, wheels, pulleys, and more, as the two animals comically test out their

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contraptions in episodic sequences. A final, foldout spread reveals their most elaborate machine yet, which resembles a roller coaster and incorporates all of the devices they have used so far.

Cathedral

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*The Big Ideas That Explain Our
World*

The Way Things Work Now

A Memoir

*Everything You Need to Know about
Numbers*

Anna, Kid Engineer

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The Kids' Book of Simple Machines

This illustrated book gives young readers “ a breathtaking and entirely original insight ” into the complex systems that exist underneath modern cities (Kirkus, starred review). Caldecott Medal-winning author and illustrator

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David Macaulay takes readers on a visual journey through a city's various support systems—the many tunnels, pipes, walls, and other structures that help sustain the bustling life above. In *Underground*, Macaulay exposes a typical section of this intricate

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underground network and explains how it works. Along with his beautiful illustrations, Macaulay presents “ a straightforward yet fascinating description of the labyrinth beneath the feet of any city dweller. And what a complex covered world [he] reveals! He

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invents an intersection of two streets and proceeds to show what we all might find if we dared to descend through that Alice-in-Wonderland manhole" (The New York Times).

A gorgeously illustrated story about a family of Egyptian

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embalmers that will enthrall kids with its mummy-making details and brilliantly painted pages. From artist and Egypt specialist Tamara Bower comes her third, gorgeous book about Ancient Egypt. Using the classic style of Egyptian art, the book is painstakingly accurate

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in facts and illustrative style. Artifacts, funerary customs, kid-loving gory details of the mummification process, hieroglyphs, and details of life in ancient Egypt are told through the eyes of Ipy, whose father is embalmer to the King. Yuya, father

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of the Queen, has died and Ipy must help his father in the mummification process. Yuya is an actual mummy and the discovery of his tomb is an entertaining story in itself, with the archaeologist Theodore Davis fainting at the sight of so much gold, and the

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partly Gaston Maspero getting stuck while trying to climb into the tomb. Yuya's tomb was a spectacular discovery in the Valley of the Kings that was later overshadowed only by the discovery of King Tut, Yuya's great-grandson. The book features

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sidebars of hieroglyphs and their meanings, a map, and an afterword telling more about the life of Yuya, of the burial process, and ancient Egypt in general. While there are a number of children's books on mummies, none are told from the point of view of the embalmers

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themselves, and none are illustrated with the meticulous eye of Tamara Bower.

How Machines Work: Zoo
Break!Dk Pub

One day Sophie comes home from school to find two questions in her mail: "Who are you?" and "Where

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does the world come from?" Before she knows it she is enrolled in a correspondence course with a mysterious philosopher. Thus begins Jostein Gaarder's unique novel, which is not only a mystery, but also a complete and entertaining history

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of philosophy.

Once upon a star, there were no stars to shine -- no sun to rise no sun to set no day, no night, nor any time. Discover the origins of the universe! The worlds of poetry and science collide to create this unique book about our sun, our

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planets, our Earth--and YOU!
Groundhog Weather School
The Origins of the Digital Universe
A Novel
Black and White
Fear of the Animal Planet
Mammoth Math

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A large format boardbook of animals from all over the world, illustrated with charm and humour. Each spread in this big book focuses on a continent and features animals unique to that part

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***of the world. A wonderful
look at common and
uncommon animals from
around the world.***

***How many simple machines
do you use every day?***

Probably more than you

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realize! Machines make work easier— helping break things apart, lift heavy objects, and change the power and direction of force applied to them. In this accessible picture book,

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***celebrated nonfiction author
David A. Adler outlines
different types of simple
machines—wedges, wheels,
levers, pulleys, and
more—and gives common
examples of how we use***

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them every day. Anna Raff's bright illustrations show how simple machines work—and add a dose of fun and humor, too. Two appealing kids and their comical cat use machines to

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***ride see-saws, turn knobs,
and even eat apples. Perfect
for classrooms or for
budding engineers to read
on their own, Simple
Machines uses clear, simple
language to introduce***

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***important mechanical
vocabulary, and easy-to-
understand examples to
illustrate how we use
machines to solve all kinds
of problems. Don't miss
David A. Adler and Anna***

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***Raff's other science
collaborations—including
Light Waves; Magnets Push,
Magnets Pull; and Things
That Float and Things That
Don't.***

Four brief "stories" about

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parents, trains, and cows, or is it really all one story? The author recommends careful inspection of words and pictures to both minimize and enhance confusion. Text and detailed drawings

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follow the planning and construction of a magnificent Gothic cathedral in the imaginary French town of Chutreaux during the thirteenth century.

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Presents the history of the invention of computers, describing the collaboration of John von Neumann and his colleagues as they worked together to create the first computer, an event

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***which led to the hydrogen
bomb and the birth of the
digital age.***

***The Mummy Makers of
Egypt***

Out of My Mind

How Machines Work

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A Look at Forces
Marvelous Machines
Simple Machines
Underground

*Journalist Walls grew up with
parents whose ideals and stubborn
nonconformity were their curse and*

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their salvation. Rex and Rose Mary and their four children lived like nomads, moving among Southwest desert towns, camping in the mountains. Rex was a charismatic, brilliant man who, when sober, captured his children's imagination, teaching them how to embrace life

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fearlessly. Rose Mary painted and wrote and couldn't stand the responsibility of providing for her family. When the money ran out, the Walls retreated to the dismal West Virginia mining town Rex had tried to escape. As the dysfunction escalated, the children had to fend

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for themselves, supporting one another as they found the resources and will to leave home. Yet Walls describes her parents with deep affection in this tale of unconditional love in a family that, despite its profound flaws, gave her the fiery determination to carve out a

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successful life. -- From publisher description.

Considered by many to be mentally retarded, a brilliant, impatient fifth-grader with cerebral palsy discovers a technological device that will allow her to speak for the first time.

One of the New York Times Book

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Review's Best Crime Novels of 2017

“Warning: you'll finish this in one sitting.” —TheSkimm “Expertly made thriller . . . clever and irresistible.”

—The New York Times An electrifying novel about the primal and unyielding bond between a mother and her son, and the lengths

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she'll go to protect him. The zoo is nearly empty as Joan and her four-year-old son soak up the last few moments of playtime. They are happy, and the day has been close to perfect. But what Joan sees as she hustles her son toward the exit gate minutes before closing time sends

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her sprinting back into the zoo, her child in her arms. And for the next three hours—the entire scope of the novel—she keeps on running. Joan's intimate knowledge of her son and of the zoo itself—the hidden pathways and under-renovation exhibits, the best spots on the carousel and

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overstocked snack machines—is all that keeps them a step ahead of danger. A masterful thrill ride and an exploration of motherhood itself—from its tender moments of grace to its savage power—Fierce Kingdom asks where the boundary is between our animal instinct to

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*survive and our human duty to
protect one another. For whom
should a mother risk her life?
A New York Times Bestseller
Explainer-in-Chief David Macaulay
updates the worldwide bestseller The
New Way Things Work to capture the
latest developments in the*

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technology that most impacts our lives. Famously packed with information on the inner workings of everything from windmills to Wi-Fi, this extraordinary and humorous book both guides readers through the fundamental principles of machines, and shows how the

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developments of the past are building the world of tomorrow. This sweepingly revised edition embraces all of the latest developments, from touchscreens to 3D printer. Each scientific principle is brilliantly explained--with the help of a charming, if rather slow-witted,

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woolly mammoth. An illustrated survey of significant inventions closes the book, along with a glossary of technical terms, and an index. What possible link could there be between zippers and plows, dentist drills and windmills? Parking meters and meat grinders, jumbo jets

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and jackhammers, remote control and rockets, electric guitars and egg beaters? Macaulay explains them all. When Groundhog realizes he needs helpers all over the country to accurately forecast the weather, he establishes a school to teach young groundhogs how to properly

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*determine when spring will arrive.
Technology, Invention, Innovation
How Science Will Shape Human
Destiny and Our Daily Lives by the
Year 2100
Turing's Cathedral
New York, New York, New York
Mammoth Science*

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Noisy Zoo

*A Novel About the History of
Philosophy*

*Imagine, if you can, the world in the
year 2100. In *Physics of the Future*,
Michio Kaku—the *New York Times*
bestselling author of *Physics of the**

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Impossible—gives us a stunning, provocative, and exhilarating vision of the coming century based on interviews with over three hundred of the world's top scientists who are already inventing the future in their labs. The result is the most

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authoritative and scientifically accurate description of the revolutionary developments taking place in medicine, computers, artificial intelligence, nanotechnology, energy production, and astronautics. In all likelihood,

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by 2100 we will control computers via tiny brain sensors and, like magicians, move objects around with the power of our minds.

Artificial intelligence will be dispersed throughout the environment, and Internet-enabled

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contact lenses will allow us to access the world's information base or conjure up any image we desire in the blink of an eye. Meanwhile, cars will drive themselves using GPS, and if room-temperature superconductors are discovered,

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vehicles will effortlessly fly on a cushion of air, coasting on powerful magnetic fields and ushering in the age of magnetism. Using molecular medicine, scientists will be able to grow almost every organ of the body and cure genetic diseases.

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Millions of tiny DNA sensors and nanoparticles patrolling our blood cells will silently scan our bodies for the first sign of illness, while rapid advances in genetic research will enable us to slow down or maybe even reverse the aging process,

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allowing human life spans to increase dramatically. In space, radically new ships—needle-sized vessels using laser propulsion—could replace the expensive chemical rockets of today and perhaps visit nearby

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stars. Advances in nanotechnology may lead to the fabled space elevator, which would propel humans hundreds of miles above the earth's atmosphere at the push of a button. But these astonishing revelations are only the tip of the

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iceberg. Kaku also discusses emotional robots, antimatter rockets, X-ray vision, and the ability to create new life-forms, and he considers the development of the world economy. He addresses the key questions: Who are the winner

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and losers of the future? Who will have jobs, and which nations will prosper? All the while, Kaku illuminates the rigorous scientific principles, examining the rate at which certain technologies are likely to mature, how far they can

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advance, and what their ultimate limitations and hazards are.

Synthesizing a vast amount of information to construct an exciting look at the years leading up to 2100, Physics of the Future is a thrilling, wondrous ride through the

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next 100 years of breathtaking scientific revolution.

This fun and friendly science book for kids poses 100 real-life questions from kids to Robert Winston on every aspect of science. Professor Robert Winston

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was inspired to write this kid's book by the many questions posed by his grandchildren and school children he has met over the years. Perfect for those who always have another "why?", Ask a Scientist injects fascinating fun into science for kids.

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The inside of this book is packed with real questions that real children are asking. These questions have piled in from every corner of the world including the USA, Canada, the UK, Ireland, Europe, India, China, and Japan.

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DK received a phenomenal number of responses from the survey they sent out, coming back with so many great questions to choose from! The questions were carefully selected to cover the main science topics. From chemistry, physics and

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the human body, to all about the Earth, space, and the science of nature. They are fun, engaging, and, dare we say include some wonderfully weird questions that many adults wouldn't dream of asking. Ask A Scientist focuses

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squarely on kids - what they want to know and how best to give them the right answer. We think you'll find a lot of the questions in this educational book will sound familiar and the format really lends itself to engaging young readers with just

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the right amount of detail. It's also brimming with illustrations that do a fabulous job of informing the content. Science can be a tricky subject for kids and this children's book truly gets a fresh perspective on it through a child's eyes. Full of

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fun facts about the world of science, it's the perfect book for kids who dream up infinite why's about the world around them. What's wonderful about how it's written, is that it highlights the flexibility of science and how not

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knowing something strengthens its foundations. By creating a book from questions, it shows children how science always has more to answer. Ask The Questions - Find The Answers! Kids from all around the world have sent us their most

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pressing, and sometimes outlandish, questions. Professor and TV personality Robert Winston is here to answer them in this fun, friendly and accessible kid's science book. Why is the sky blue? Do Aliens exist? How do fish see at

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night? Find the answers to these questions and more covering a range of topics like: - Chemistry - Space - The Human Body - Earth - Physics - Natural Science
Nicholas Fox Weber, author of the acclaimed Patron Saints

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(“Exhilarating avant-garde entertainment”—Sam Hunter, The New York Times Book Review) and Balthus (“The authoritative account of his life and work”—Michael Ravitch, Newsday), gives us now the idiosyncratic lives of Sterling

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and Stephen Clark—two of America's greatest art collectors, heirs to the Singer sewing machine fortune, and for decades enemies of each other. He tells the story, as well, of the two generations that preceded theirs, giving us an

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intimate portrait of one of the least known of America's richest families. He begins with Edward Clark—the brothers' grandfather, who amassed the Clark fortune in the late-nineteenth century—a man with nerves of steel; a Sunday

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school teacher who became the business partner of the wild inventor and genius Isaac Merritt Singer. And, by the turn of the twentieth century, was the major stockholder of the Singer Manufacturing Company. We follow

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Edward's rise as a real estate wizard making headlines in 1880 when he commissioned Manhattan's first luxury apartment building. The house was called "Clark's Folly"; today it's known as the Dakota. We see Clark's

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son—Alfred—enigmatic and famously reclusive; at thirty-eight he inherited \$50 million and became one of the country's richest men. An image of propriety—good husband, father of four—in Europe, he led a secret homosexual life. Alfred was a man

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with a passion for art and charity, which he passed on to his four sons, in particular Sterling and Stephen Clark. Sterling, the second-oldest, buccaneering and controversial, loved impressionism, created his own museum in

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Williamstown, Massachusetts—and shocked his family by marrying an actress from the Comédie Française. Together the Sterling Clarks collected thousands of paintings and bred racehorses. In a highly public case, Sterling sued his

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three brothers over issues of inheritance, and then never spoke to them again. He was one of the central figures linked to a bizarre and little-known attempted coup against Franklin Delano Roosevelt's presidency. We are

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told what really happened and why—and who in American politics was implicated but never prosecuted. Sterling's brother—Stephen—self-effacing and responsible—became chairman and president of the Museum of Modern

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Art and gave that institution its first painting, Edward Hopper's House by the Railroad. Thirteen years later, in an act that provoked intense controversy, Stephen dismissed the Museum's visionary founding director, Alfred Barr, who

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for more than a decade had single-handedly established the collection and exhibition programs that determined how the art of the twentieth century was regarded. Stephen gave or bequeathed to museums many of the paintings

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that today are still their greatest attractions. With authority, insight, and a flair for evoking time and place, Weber examines the depths of the brothers' passions, the vehemence of their lifelong feud, the great art they acquired, and the

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profound and lasting impact they had on artistic vision in America. Where does luggage go after check in? What happens in the control tower? How do planes actually fly? This interactive, lift-the-flap book takes you behind-the-scenes to

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uncover the hidden secrets of the airport - from a peek inside the cockpit to the hustle and bustle of departures. In this follow-up to How Cities Work, we explore the earliest airports through to today's giant transport hubs and what airports

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could look like in the future. Packed with amazing facts and illustrations from James Gulliver Hancock, it'll surprise and delight readers young and old, ensuring they never look at air travel in the same way again. Created in consultation with Tom

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*Cornell, VP Airspace / Airfields,
Americas at Landrum & Brown.
Contents include: Airports Through
the Ages The Great Get-to-the-
Airport Race Find Your Way Round
the Airport The Maintenance
Hangar In the Terminal Inside an*

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*Aircraft The Control Tower Sees All
Preparing Planes Ship That Cargo
The Incredible Luggage Journey
Airports of the Future About Lonely
Planet Kids: Come explore! Let's
start an adventure. Lonely Planet
Kids excites and educates children*

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about the amazing world around them. Combining astonishing facts, quirky humour and eye-catching imagery, we ignite their curiosity and encourage them to discover more about our planet. Every book draws on our huge team of global

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experts to help share our continual fascination with what makes the world such a diverse and magnificent place - inspiring children at home and in school. Working at the local processing plant, Marcos is in the business of

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slaughtering humans—though no one calls them that anymore. His wife has left him, his father is sinking into dementia, and Marcos tries not to think too hard about how he makes a living. After all, it happened so quickly. First, it was

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reported that an infectious virus has made all animal meat poisonous to humans. Then governments initiated the “Transition.” Now, eating human meat—“special meat”—is legal. Marcos tries to stick to numbers, consignments,

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processing. Then one day he's given a gift: a live specimen of the finest quality. Though he's aware that any form of personal contact is forbidden on pain of death, little by little he starts to treat her like a human being. And soon, he

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*becomes tortured by what has been
lost—and what might still be saved.*

A Poetic Journey Through Space

Tender Is the Flesh

More than 20 Sensational STEAM

Projects to Create at Home

The Big Book of Animals of the

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World

Physics of the Future

Super Cool Tech

The Story of Its Construction

Taking the reader deep
inside of the circus, the zoo,
and similar operations, Fear

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of the Animal Planet provides a window into animal behavior: chimpanzees escape, elephants attack, orcas demand more food, and tigers refuse to perform. Indeed, these animals are

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rebellious with intent and purpose. They become true heroes and our understanding of them will never be the same.

A celebrated author-illustrator brings his

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acclaimed voice and style to a high-interest nonfiction book about the complex inner-workings of one of the most familiar objects in our lives, the toilet.

Simultaneous.

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Use the Magic Lens to reveal
the inner workings of the
machines all around us
An offbeat guide to math
from award-winning author
and illustrator David
Macaulay. David Macaulay's

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troupe of curious mammoths lead you through the basics of numbers, geometry, measurement, and much more in this unconventional and highly original guide to math. From computer games

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to bridges, shopping malls to
game shows, math is all
around you if you look
closely enough. In Mammoth
Math, not only will you learn
the essential principles of
math, you'll enjoy learning

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about them. From start to finish, let the mammoths be your guide as they seek to understand the math! These intrepid demonstrators will go to incredible lengths to educate and entertain, as

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they wrestle with adding or subtracting large numbers, measuring angles, reading 24-hour time, creating a pie chart, solving equations, and much more. Following on from Mammoth Science is

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best-selling illustrator David Macaulay, whose *How Machines Work* won the Royal Society Young People's Book Prize in 2016.

Renowned for his ability to explain complex ideas with

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simple genius, Macaulay captures the oddball humor of his subject matter, making Mammoth Math the perfect introduction to math for the young and the young-at-heart.

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This hands-on crafty science ebook introduces inquisitive children to the wonders of science through kids craft projects with everyday objects. Award-winning author Jane Bull combines

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art, craft, and cooking
activities with gentle,
scientific learning, showing
children that science,
technology, engineering, art,
and math are all around us -
and in everything we make

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and do! Crafty Science contains over 20 fun-filled craft activities for kids, each accompanied by a "What's the science?" section explaining how it works. Children will learn how to

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make a toy raft and discover what makes their boat float. They'll design, color, and watch a paper butterfly balance on the tip of a pencil. Or even create a cool ice sculpture and learn about

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the changing states of solids and liquids. With this educational ebook, difficult concepts like buoyancy, gravity, and aerodynamics become meaningful and accessible to young children

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through play. They will discover the world around them as they have never seen it before! Little crafters will become little scientists as they explore, experiment, make, and create their way

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through every STEAM project. A super fun kids' ebook that can fill up many weekends with your children. It offers activities that are not just typically "science", but include variety like

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baking, growing, and art projects. All use scientific principles to allow children to develop observational science. Depending on your child's age, a fair amount of supervision may be

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necessary, but these projects are so charming that we're sure adults will have a good time with them too! Discover Science Everywhere! Science is all around you and in

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everything you make and do! Craft your way through each art, cooking, and gardening project, then learn the science behind them. Make a toy raft and find out what makes your boat float

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or learn why popcorn pops. Discover your wonderful world in a completely new way. Explore the world of science through tons of stimulating experiments and fun activities for kids like: -

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Making crafty boats -
Growing grass people -
Writing secret messages
with invisible ink - Making
meringue mountains -
Creating a self-inflating
balloon - And much more!

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The Institute
Four Decades of Success,
Excess, and Transformation
How Airports Work
UFO Phenomena and
Perpetual Motion Machines
Fierce Kingdom

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Beyond the Pond
Crafty Science

***A stunning picture book about
the power of imagination,
perfect for fans of Extra Yarn
and Journey, from debut
author-illustrator Joseph***

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Kuefler. Just behind an ordinary house filled with too little fun, Ernest D. decides that today will be the day he explores the depths of his pond. Beyond the pond, he discovers a not-so-ordinary world that will change him

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forever.

***Presents fantasy stories
written by Internet authors
that explore how people,
cultures, and societies are
affected by the predictions of
the Machine, an object that
provides short yet vague***

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***phrases about how a person
will die.***

***David Macaulay's How
Machines Work uses pop-ups
and award-winning
illustrations to demonstrate
the technology of six simple
machines. Follow the mad***

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antics of Sloth and his side-kick Sengi as they try to break out of the zoo with the help of levers, pulleys, screws, inclined planes, wedges and wheels. Brought to life through pop-ups and pull-outs meaning you can explore six

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simple machines, from bicycles and cranes to hammers and drills, through interactive science. Packed with engaging, hands-on activities, David Macaulay's How Machines Work will gear kids up for scientific and

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***engineering greatness!
From #1 New York Times
bestselling author Stephen
King whose “storytelling
transcends genre” (Newsday)
comes “another winner:
creepy and touching and
horrifyingly believable” (The***

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Boston Globe) about a group of kids confronting evil. In the middle of the night, in a house on a quiet street in suburban Minneapolis, intruders silently murder Luke Ellis's parents and load him into a black SUV. The

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operation takes less than two minutes. Luke will wake up at The Institute, in a room that looks just like his own, except there's no window. And outside his door are other doors, behind which are other kids with special

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talents—telekinesis and telepathy—who got to this place the same way Luke did: Kalisha, Nick, George, Iris, and ten-year-old Avery Dixon. They are all in Front Half. Others, Luke learns, graduated to Back Half, “like

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the roach motel,” Kalisha says. “You check in, but you don’t check out.” In this most sinister of institutions, the director, Mrs. Sigsby, and her staff are ruthlessly dedicated to extracting from these children the force of their

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extranormal gifts. There are no scruples here. If you go along, you get tokens for the vending machines. If you don't, punishment is brutal. As each new victim disappears to Back Half, Luke becomes more and more desperate to

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get out and get help. But no one has ever escaped from the Institute. As psychically terrifying as Firestarter, and with the spectacular kid power of It, The Institute is "first-rate entertainment that has something important to

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***say. We all need to listen”
(The Washington Post).***

***Follows the planning,
construction, and ultimate
testing in battle of a typical
fortress with adjoining town
built by the English during
the Middle Ages.***

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Work Zoo Break

***The Clarks of Cooperstown
How Machines Work: Zoo
Break!***

***Cool Projects & Activities that
Make Science Fun***

A Magic Lens Book

Ask A Scientist

A Collection of Stories about

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***People who Know how They
Will Die***

Sophie's World

**Introduces six simple machines,
describing how they work in
more complex machinery and
how they are used every day.**

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Explores the complex inner workings of the human body in a visual study of anatomy and physiology that ranges from the cells that form the building blocks of the body, to the individual organs and systems

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and how they function.

It is once again time for the Science Fair. Anna isn't excited about the event because of the embarrassing projects she came up with during her 3rd and 4th grade years. Anna likes to tinker,

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but what does that have to do with a science fair project? In the process of trying to figure out a project, Anna discovers that she is a kid engineer!

See today's best innovations and imagine tomorrow's big ideas in

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Super Cool Tech. This cutting-edge guide explores how incredible new technologies are shaping the modern world and its future, from familiar smartwatches to intelligent, driverless cars. Packed with

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more than 250 full-color images, X-rays, thermal imaging, digital artworks, cross-sections, and cutaways, Super Cool Tech reveals the secrets behind the latest gadgets and gizmos, state-of-the-art buildings, and life-

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changing technologies. Learn about incredible architectural concepts around the world, such as the Hydropolis Underwater Hotel and Resort in Dubai, and the River Gym, a human-powered floating gym in New York City.

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Discover how a wheelchair adapts to its surroundings and learn how a cutting board can give the nutritional information of the food being prepared on it. From 3-D-printed cars to robot vacuum cleaners, Super Cool

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Tech reveals today's amazing inventions and looks ahead to the future of technology, including hologram traffic lights and the Galactic Suite Hotel in space. Perfect for STEAM education initiatives, Super Cool

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Tech makes technology easy to understand, following the history of each invention and how they impact our everyday lives, and "How It Works" panels explain the design and function of each item using clear explanations

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and images. Designed in DK's signature style, Super Cool Tech is the ultimate guide to exploring and understanding the latest gadgets and inventions while looking ahead to the future of technology.

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A nomad fashion's a home that's meant to be built and rebuilt. A family tears down an old house and erects a new one in its place. Even the Eiffel Tower wasn't meant to be anything more than temporary. As humans, we don't

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always build things to endure the test of time. Built to Last brings together the award-winning author and artist David Macaulay's creative, exacting thinking about buildings and designs that were crafted with a

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**strength of structure and
purpose that defy the everyday:
Castle, Cathedral, and Mosque.
This gorgeous volume includes
newly researched information
about each building and how it
was built. And, for the first time**

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ever, the Caldecott Honor–winning Castle and Cathedral appear in full color—with stunning new drawings that enrich the reader’s understanding of these structures, and capture

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intriguing new perspectives and details. Just as the buildings themselves were created to last, our interest in the structures themselves, the people who created them, and the purposes for which they were made

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endures as well. This impeccably researched volume—a necessary addition to the bookshelf of anyone interested in architecture—celebrates this spirit of endurance and serves as a reminder that building well and

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**leaving something of
consequence behind, whether a
building, a design, or an idea, is
still of the utmost importance.
Professor Robert Winston
Answers 100 Big Questions from
Kids Around the World!**

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Toilet: How It Works

Once Upon a Star

Machine of Death

Built To Last

The Glass Castle

The Way We Work

A New York Times Notable Book A

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lively, immersive history by an award-winning urbanist of New York City's transformation, and the lessons it offers for the city's future. Dangerous, filthy, and falling apart, garbage piled on its streets and entire neighborhoods reduced to rubble; New York's terrifying, if

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liberating, state of nature in 1978 also made it the capital of American culture. Over the next thirty-plus years, though, it became a different place—kinder and meaner, richer and poorer, more like America and less like what it had always been. New York, New York, New York,

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Thomas Dyja's sweeping account of this metamorphosis, shows it wasn't the work of a single policy, mastermind, or economic theory, nor was it a morality tale of gentrification or crime. Instead, three New Yorks evolved in turn. After brutal retrenchment came the

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dazzling Koch Renaissance and the
Dinkins years that left the city's
liberal traditions battered but laid
the foundation for the safe streets
and dotcom excess of Giuliani's
Reformation in the '90s. Then the
planes hit on 9/11. The shaky city
handed itself over to Bloomberg

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who merged City Hall into his personal empire, launching its Reimagination. From Hip Hop crews to Wall Street bankers, D.V. to Jay-Z, Dyja weaves New Yorkers famous, infamous, and unknown—Yuppies, hipsters, tech nerds, and artists; community

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organizers and the immigrants who made this a truly global place—into a narrative of a city creating ways of life that would ultimately change cities everywhere. With great success, though, came grave mistakes. The urbanism that reclaimed public space became a

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means of control, the police who made streets safe became an occupying army, technology went from a means to the end. Now, as anxiety fills New Yorker's hearts and empties its public spaces, it's clear that what brought the city back—proximity, density, and

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human exchange—are what sent Covid-19 burning through its streets, and the price of order has come due. A fourth evolution is happening and we must understand that the greatest challenge ahead is the one New York failed in the first three: The cures must not be worse

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than the disease. Exhaustively researched, passionately told, New York, New York, New York is a colorful, inspiring guide to not just rebuilding but reimagining a great city.

Castle: How It Works

Wheels, Levers, and Pulleys

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Give It a Push! Give It a Pull!
The Hidden History of Animal
Resistance
Getting to Know the Amazing
Human Body