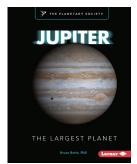
# **STEM BOOKS** FOR GRADES K-12

# NEW FALL 2024 RELEASES



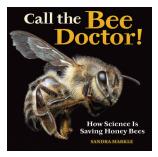
Exploring Our Solar System with The Planetary Society® New 8-Book Series Grades 2-4



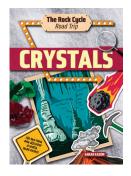
Build Your Own Space Projects New 4-Book Series Grades 3-4



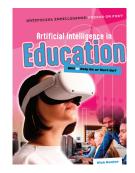
The Moon Files (Alternator Books®) New 6-Book Series Grades 3-6



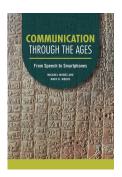
Sandra Markle's Science Discoveries 1 New Title 2 New Paperback Editions 17-Book Series Grades 4-6



**The Rock Cycle Road Trip** New 6-Book Series Grades 5-8



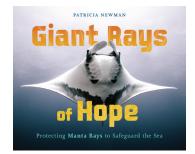
Artificial Intelligence: Friend or Foe? New 6-Book Series Grades 5-8



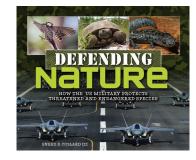
**Technology through the Ages** 4 New Titles, 8-Book Series Grades 6-12



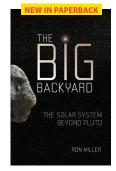
Grades 4-5



Grades 4-8



Grades 4-8



Grades 8-12



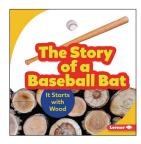
Grades 7-12

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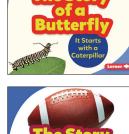
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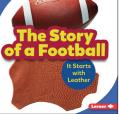




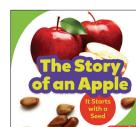


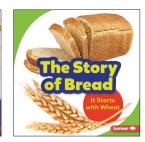












# **Step by Step**

What happens first? What comes next? Introduce readers to simple sequences and processes by exploring animal life cycles, how plants grow, or how foods or products are made. Readers will be fascinated by these step-by-step accounts.

SPANISH-LANGUAGE TITLES PG 49

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2-BOOK SERIES





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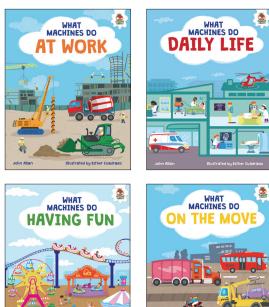
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# What Machines Do

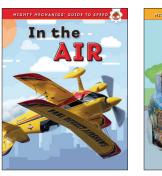
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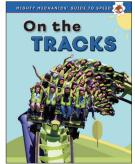
Digging, plowing, baking, flying. Explore the world of machines! Bright illustrations and informative text show a wide variety of machines. Perfect for little engineers who like to see what machines do and how they work.

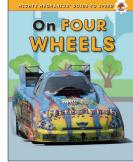
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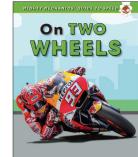
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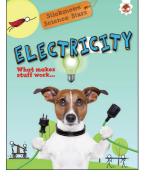
Join the Mighty Mechanics on a tour of the world's fastest vehicles—on two wheels, on four wheels, on tracks, and in the air. From fighter jets to rocket sleds, compare top speeds and special features of amazing speed machines!

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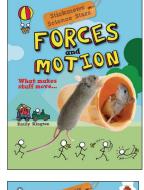
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The Young Astronaut's Guide to the Universe ©21	900	Ν	9781913440572





# **Get Started with STEM**

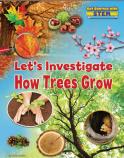
This vibrant, colorful science series will get your students asking and answering questions; making observations; collecting, recording, and analyzing data; having fun with experiments and hands-on activities; and thinking and working like scientists.

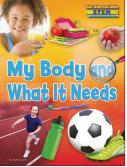
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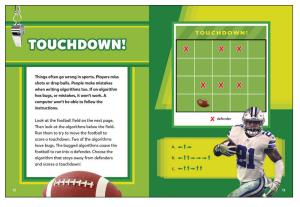
CODING G

# **Sports Coding Concepts**

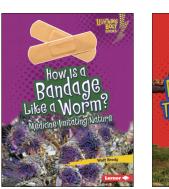
Introduce readers to computer coding through no-tech, sports-themed projects. Readers will move a soccer ball by writing an algorithm and use loops to create a winning football play. Sports fans will enjoy learning the basics of coding-with no computer needed!

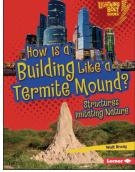
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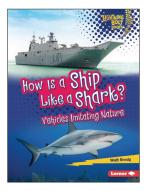


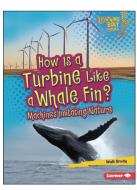
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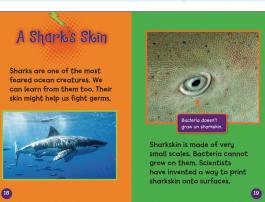
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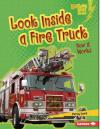
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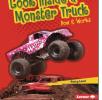














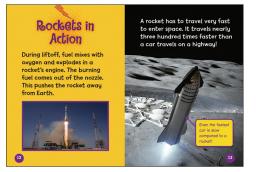
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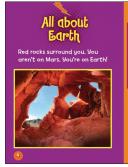
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Explore Neptune ©21	850	Ν	9781728404127	9781728423647
Explore Saturn ©21	710	Ν	9781728404134	9781728423654
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Explore Venus ©21	780	Ν	9781728404158	9781728423678





Earth is a planet in the solar system. It is the third planet from our star, the sun. It is about 93 million miles (150 million km) from the sun.





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Learn about axles, screws, wedges and more with a silly alien engineer who guides readers through hands-on projects that demonstrate the use of simple machines.

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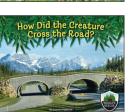
TITLE	LEXILE	GRL	HARDCOVER	PAPERBACK
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# Caution: Turtles and Frogs Aheadi







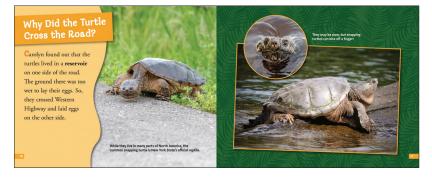
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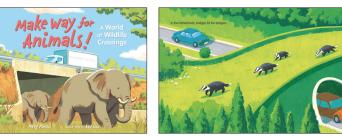
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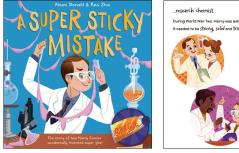
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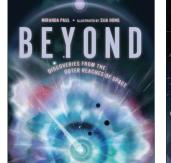
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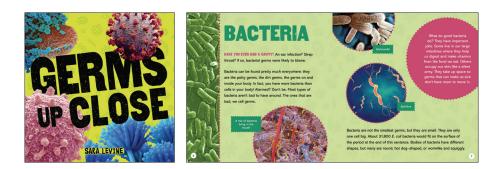
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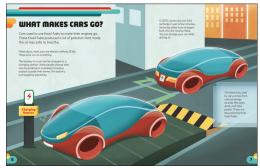
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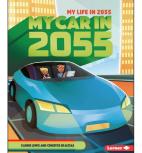
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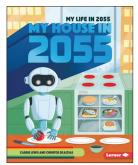
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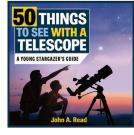
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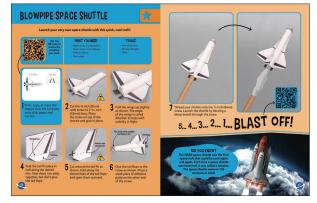
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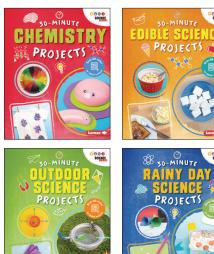
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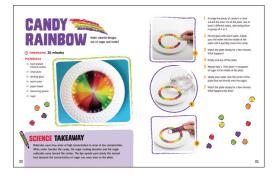
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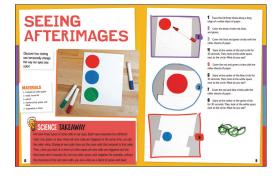
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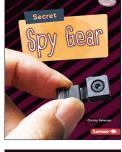
darkness, and she heard the faint bark of a dog far off in the quiet distance. "Intr this your favorite time of the day? Jaces ashed Mr. Stubbs, who was already back asleep on Jeane's lap. "It's to tranquil. Stubbs. Are you savek?" She giggled. A pair of bark futured by, during back and forth for their early breakfast of timy ts. "Do bats eat bee

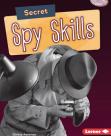










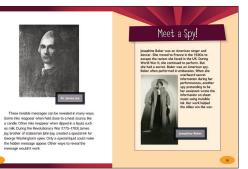


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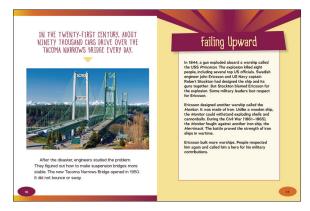
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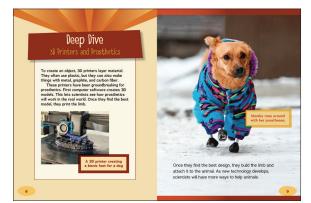
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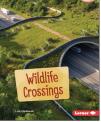


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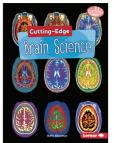


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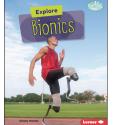






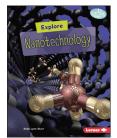


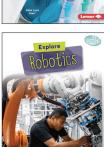














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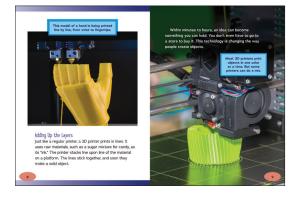
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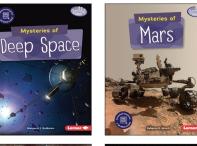


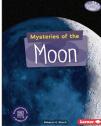




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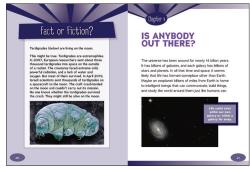


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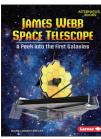
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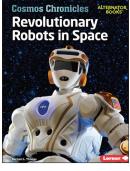














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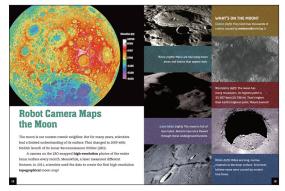
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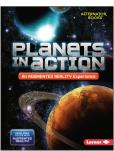
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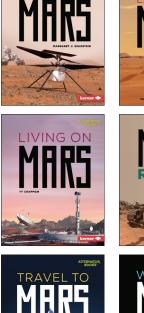






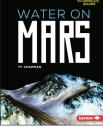


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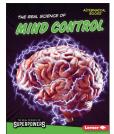


















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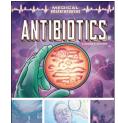
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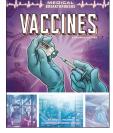
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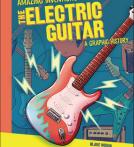


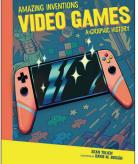












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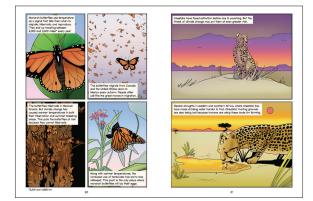
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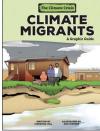
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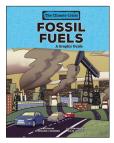
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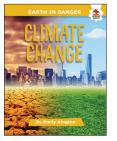


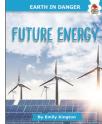




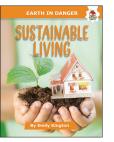












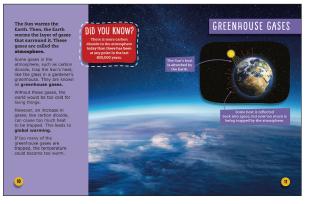


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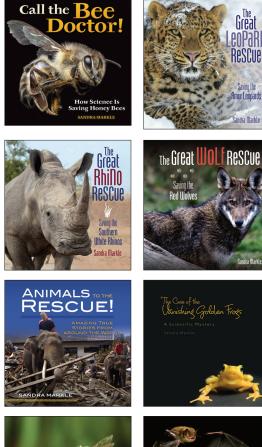
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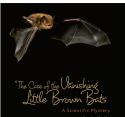
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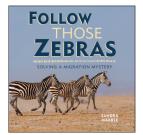
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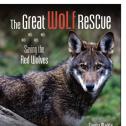




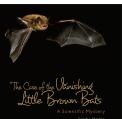


















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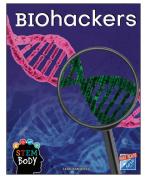
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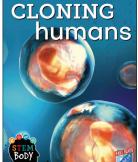
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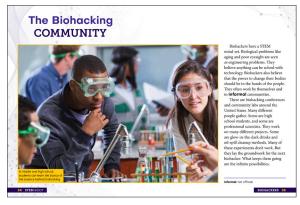
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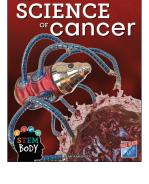
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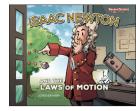
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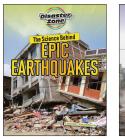
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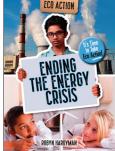














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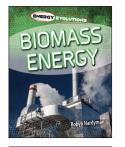


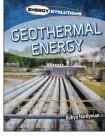


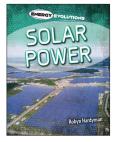


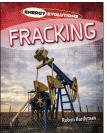


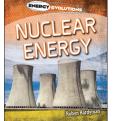


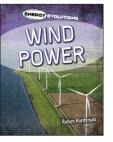












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Vivian Kirkfield illus. Chris Ewald

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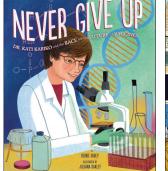
The Secret Career of Mary Golda Ross, Cherokee Aerospace Engineer Traci Sorell illus. Natasha Donovan

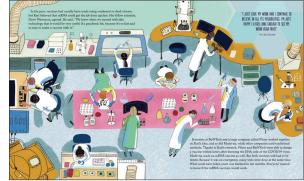
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Mary Golda Ross designed classified projects for Lockheed Aircraft Corporation as the company's first female engineer. Find out how her passion for math and the Cherokee values she was raised with shaped her life and work.

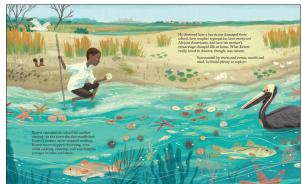
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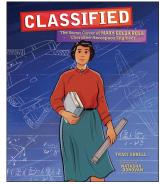






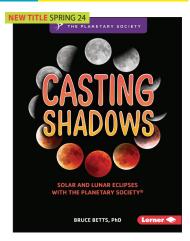








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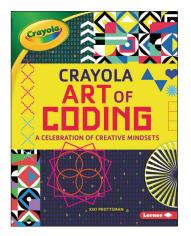


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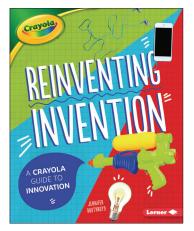
#### ★ Picnic Planet A Lunchtime Guide to Your Galaxy's Exoplanets Asa Stahl illus. Nadia Hsieh

If you could go anywhere beyond our galaxy for the perfect picnic, where would you go? Take a ride on a spaceship to explore worlds beyond our own and see what kind of strange planets are out there.

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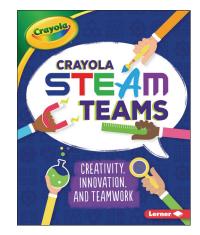


**Reinventing Invention** A Crayola<sup>®</sup> Guide to Innovation

Jennifer Boothroyd

This dive into the history of popular and lesser-known inventions is sure to inspire reader curiosity. Untold details behind the invention of the lightbulb, the Super Soaker, and more challenge what readers might have heard.

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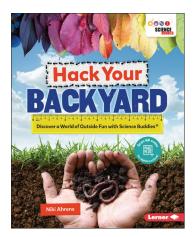
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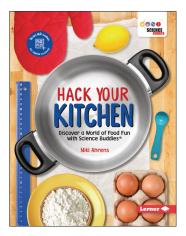
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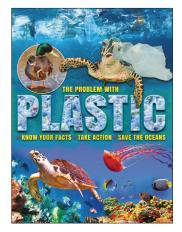
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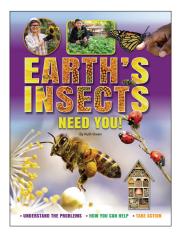
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#### Human 2.0 A Celebration of Human Bionics Patrick Kane illus, Samuel Rodriguez

From cochlear implants to bionic arms, technology has changed lives. This book celebrates all that has been achieved and looks to the future. *Human 2.0* features content reviewed by Mayo Clinic rehabilitation specialist Sherilyn Driscoll, MD.

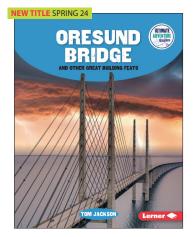
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Earth's Insects Need You! Understand the Problems, How You Can Help, Take Action Ruth Owen

Earth's insects are in trouble. That's one half of this book's simple but vital message. The book's other, more hopeful, "call to action" is that everyone can do something to help.

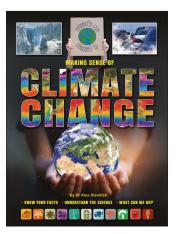
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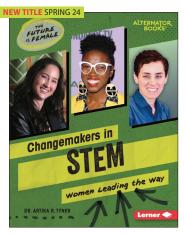
What Can We Do?

Alex Standish

Climate change is happening, and we need to tackle this issue. This evidence-based overview of climate change past and present helps readers make sense of the science and look at the possibilities for the future.

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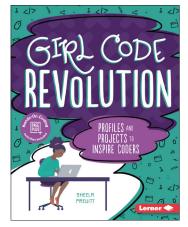


#### Changemakers in STEM Women Leading the Way Dr. Artika R. Tyner

Dr. Artika R. Tyner

Discover the women who have shaped the fields of science, technology, engineering, and mathematics. Readers will uncover women of the past and present who have made scientific breakthroughs, developed innovative technology, and more!

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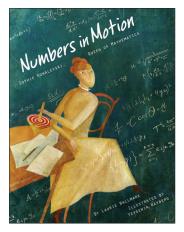


#### Girl Code Revolution Profiles and Projects to Inspire Coders Sheela Preuitt

This book is part how-to, part profile, and all about leading the girl code revolution! Discover step-by-step instructions for interesting projects and profiles of inspirational female coders and leaders who are breaking down barriers in STEM fields. Page Plus URLs inside the book take readers to fun coding projects online!

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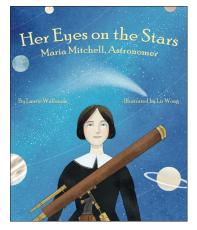
Sophie Kowalevski, Queen of Mathematics Laurie Wallmark illus. Yevgenia Nayberg Sophie Kowalevski was both a brilliant mathematician and a talented writer. A wonderful STEAM figure, she not only did mathematical research, but she also created many literary works and enjoyed many firsts, such as being the first woman to receive a doctorate in mathematics.

 Reading Level Grade 4 Interest Level Grades 3-6

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Her Eyes on the Stars Maria Mitchell, Astronomer Laurie Wallmark illus, Liz Wong

Maria Mitchell was not only the first American to discover a comet, in the mid 1800s. She went on to many other firsts, including being the first woman astronomy professor in the world, sharing her passion and knowledge

with other women at Vassar College. Reading Level Grade 3 Interest Level Grades 3-6 Pages 40 Trim 9 x 11 ©23 Creston Books Hardcover \$14.99 (List \$19.99) 9781954354135

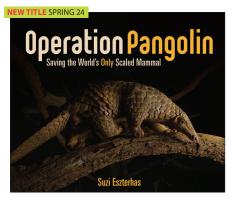


The Adventures of Dr. Sloth Rebecca Cliffe and Her Quest to Protect Sloths Suzi Eszterhas

Scientists know surprisingly little about sloths, but Becky Cliffe is working to change that. Visit the Costa Rican rain forest to see these adorable animals up close. Page Plus links in the book lead to videos of sloths in the wild.

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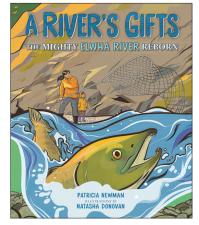


**Operation Pangolin** Saving the World's Only Scaled Mammal Suzi Eszterhas

Pangolins are one of the most poached animals in the world. Yet scientists know very little about them. Discover how pangolin rescuers and researchers such as Thai Nguyen are working to protect these mysterious creatures.

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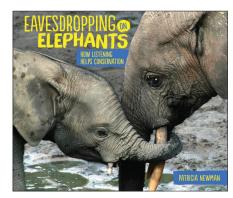


## ★A River's Gifts The Mighty Elwha River Reborn

Patricia Newman illus. Natasha Donovan

There's more to a river than meets the eye. The story of the Elwha River in Washington State is one of both environmental harm and restoration involving advocacy, persistence, cooperation, and hope.

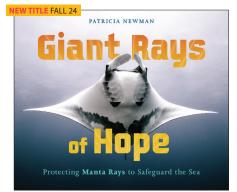
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#### **Eavesdropping on Elephants** How Listening Helps Conservation Patricia Newman

Can understanding how forest elephants communicate help scientists find ways to protect them? Come behind the scenes of Cornell University's Elephant Listening Project to see what's being done to keep these majestic animals safe, with QR codes linking to audio of the elephant sounds.

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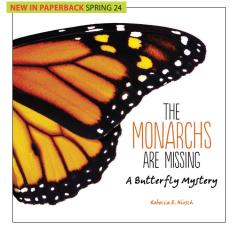


## **Giant Rays of Hope**

#### Protecting Manta Rays to Safeguard the Sea Patricia Newman

Kerstin Forsberg made waves in Perú when she started a community-focused project to save manta rays. Find out more about manta rays and how local people are working to save these gentle giants.

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Rebecca E. Hirsch

Why are monarch butterflies disappearing? Scientists are racing to find answers. Go on a quest to discover what could be causing the decline in butterfly populations, and learn what monarch lovers can do to make a difference.

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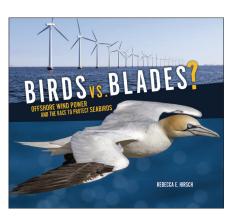
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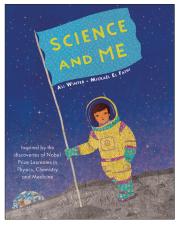


**Birds vs. Blades?** Offshore Wind Power and the Race to Protect Seabirds

Rebecca E. Hirsch

Find out how scientists are working to ensure that clean, renewable offshore wind power won't spell disaster for the millions of seabirds that play a critical role in the ocean food web.

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Science and Me Inspired by the Discoveries of Nobel Prize Laureates in Physics, Chemistry and Medicine

Ali Winter illus. Mickaël El Fathi

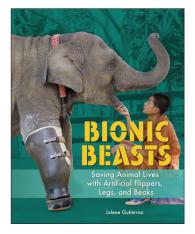
Discover some of the inspirational men and women who have received Nobel Prizes in Physics, Chemistry and Medicine from 1901 to the present day, among them Marie Curie, Hermann Joseph Muller, and Donna Strickland.

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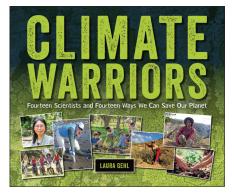
#### **Bionic Beasts** Saving Animal Lives with Artificial Flippers, Legs, and Beaks

Jolene Gutiérrez

What happens to a goose with no beak or a turtle with one flipper? Using innovative designs and technology such as 3-D printing, humans are helping animals in need. Discover amazing true stories of animals thriving with prosthetic body parts.

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## **Climate Warriors** Fourteen Scientists and Fourteen Ways We Can Save Our Planet

Laura Gehl

Meet fourteen different scientists who are working to solve the climate crisis and the surprising ways they are doing it. This book informs young readers and gives them the tools they need to make a difference.

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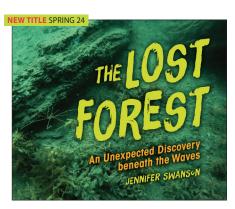
## **★**Defending Nature

How the US Military Protects Threatened and Endangered Species

Sneed B. Collard III

On Eglin Air Force Base, scientists and soldiers work together to protect endangered redcockaded woodpeckers, gopher tortoises, and reticulated flatwoods salamanders. Discover the challenges endangered species face and how the military works to protect them.

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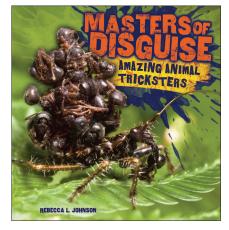


## **The Lost Forest**

An Unexpected Discovery beneath the Waves Jennifer Swanson

Take a deep dive with scientists exploring a sunken cypress forest that had been undisturbed in the Gulf of Mexico for fifty thousand years. Page Plus links lead to videos of the scientists at work.

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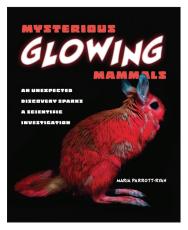


## ★ Masters of Disguise Amazing Animal Tricksters

Rebecca L. Johnson

In the animal kingdom, survival is the name of the game—and not everything is as it seems. Learn more about the animals that use tricks beyond your wildest imagination to stay safe—and stay alive!

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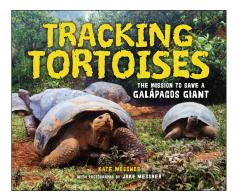


★ Mysterious Glowing Mammals An Unexpected Discovery

**Sparks a Scientific Investigation** Maria Parrott-Ryan

One night a scientist discovered something surprising in his backyard: a flying squirrel that glowed bright pink! Follow this exciting investigation into mammals that glow when exposed to ultraviolet light, and see it in action by scanning a QR code.

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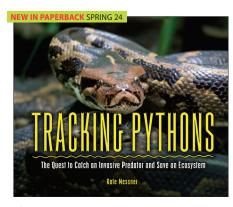
## ★Tracking Tortoises

#### The Mission to Save a Galápagos Giant Kate Messner

Take a journey to the Galápagos Islands to see Galápagos giant tortoises up close and discover how cutting-edge technology is helping scientists study and protect these gentle giants. Page Plus links in the book lead to videos of scientists in the field.

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## **\***Tracking Pythons

# The Quest to Catch an Invasive Predator and Save an Ecosystem

Kate Messner

Pet Burmese pythons released into the wild have bred and multiplied into tens of thousands in southern Florida, devouring native species. Learn how scientists hope to stop the pythons. Page Plus links in the book lead to videos of scientists' efforts.

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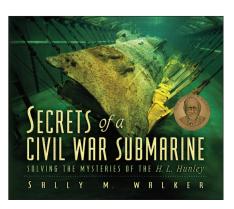
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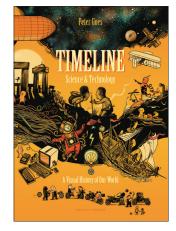


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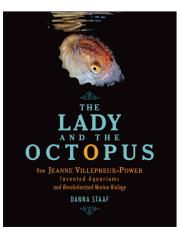
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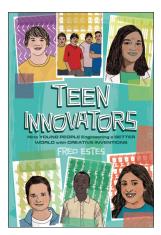


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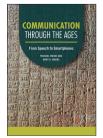
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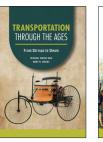
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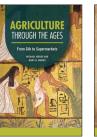
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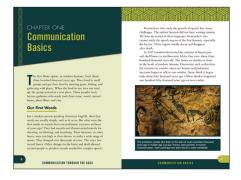


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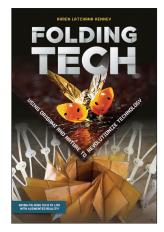
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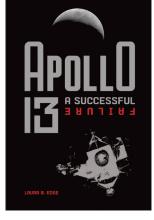


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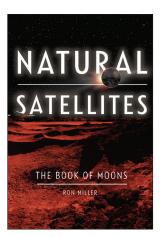
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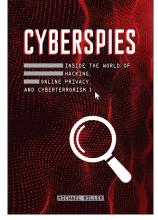


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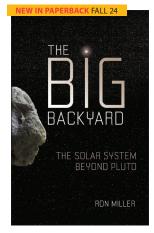


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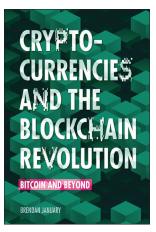
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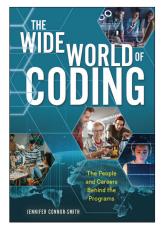


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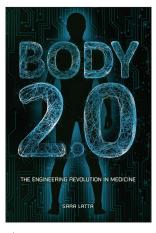


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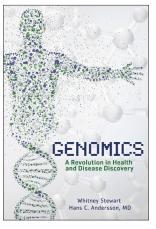
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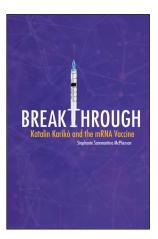
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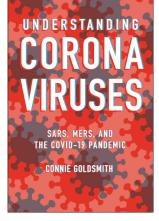
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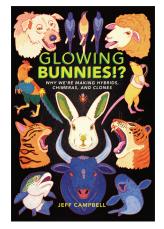
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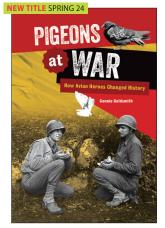
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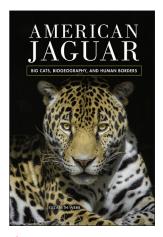
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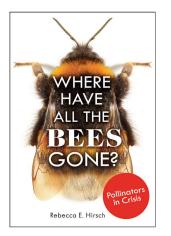
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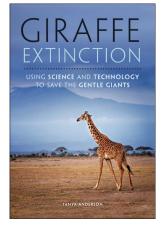


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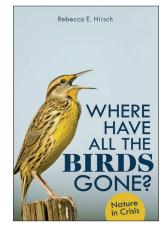


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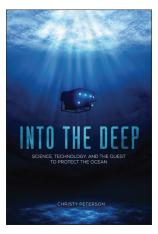
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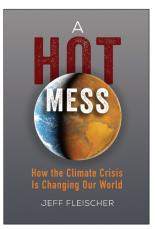
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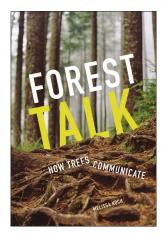
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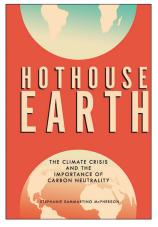
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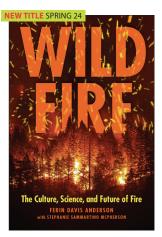
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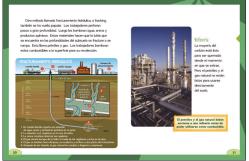
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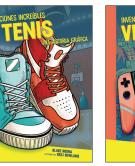


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