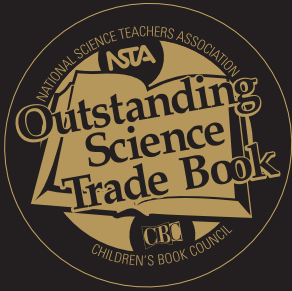


Outstanding Science Trade Books for Students



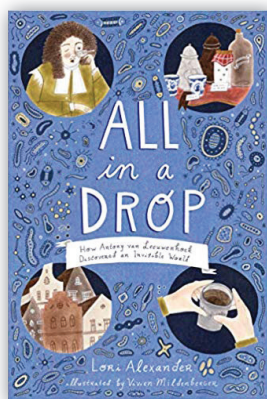
2020

BOOKS PUBLISHED IN 2019



National
Science
Teaching
Association

We invite you to explore this year's list of Outstanding Science Trade Books, which builds upon our 47-year history. In the award-winning books below, you'll find not only traditional science content but also elements of engineering and design. We hope you'll enjoy exploring science through this collection of outstanding children's books.

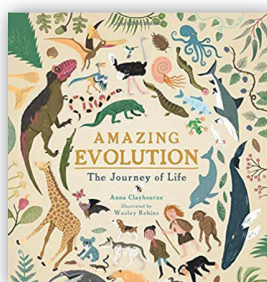


All in a Drop: How Antony Van Leeuwenhoek Discovered an Invisible World

Lori Alexander

Illustrated by Vivien Mildenerberger
Houghton Mifflin Harcourt Books for Young Readers

This biography of a notable amateur scientist shows how curiosity and persistence are key to scientific discoveries.

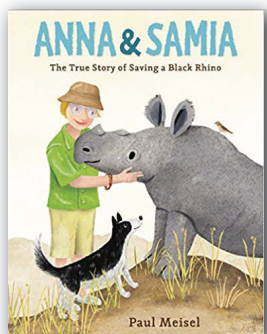


Amazing Evolution: The Journey of Life

Anna Claybourne

Illustrated by Wesley Robins
The Quarto Group

This book explains evolution as a process of constant change.

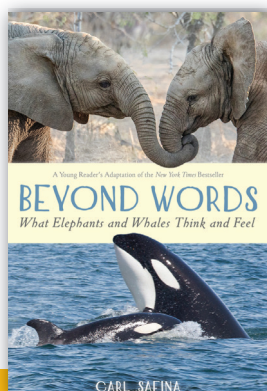


Anna & Samia: The True Story of Saving a Black Rhino

Paul Meisel

Macmillan Children's Publishing Group / Farrar, Straus and Giroux (BYR)

The true story of conservationist Anna Merz and her efforts to raise and release Samia, an orphaned black rhino.

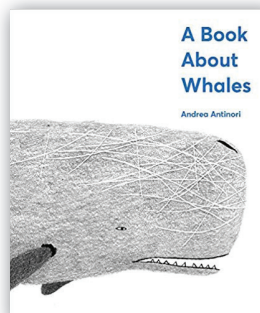


Beyond Words: What Elephants and Whales Think and Feel (A Young Reader's Adaptation)

Written and photographed by Carl Safina
Macmillan Children's Publishing Group / Roaring Brook Press

Firsthand accounts, field research, and photographs engage readers in a narrative about the emotions, behaviors, and communications of elephants across the Kenyan landscape.

For further information, please visit
www.nsta.org/publications/ostb

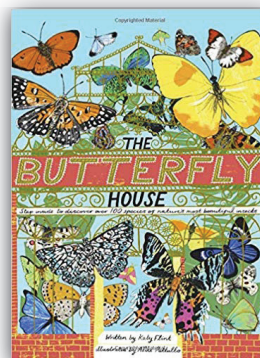


A Book About Whales

Andrea Antinori

Abrams Books for Young Readers

A beautifully illustrated introduction for young learners about the whales of the world, their habitats, habits, and how to recognize different species.

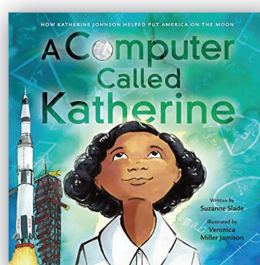


The Butterfly House

Katy Flint

Illustrated by Alice Pattullo
The Quarto Group / Frances Lincoln Children's Books

The Earth is our butterfly house. This book is filled with excellent information and stunning illustrations that help us explore the world of butterflies.

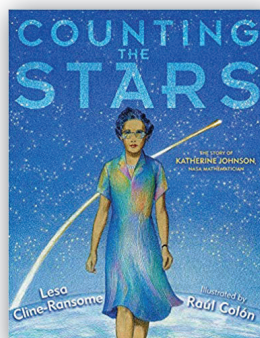


A Computer Called Katherine

Suzanne Slade

Illustrated by Veronica Miller Jamison
Little, Brown Books for Young Readers

This book shares the drive and determination of Katherine Johnson as she worked mathematically to help NASA put a man on the moon.

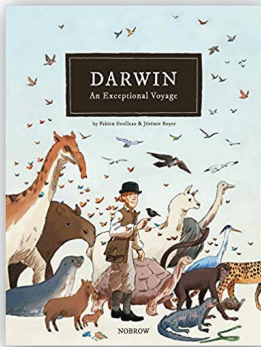


Counting the Stars, The Story of Katherine Johnson, NASA Mathematician

Lesla Cline-Ransome

Illustrated by Raúl Colón
Simon & Schuster Books for Young Readers

Katherine Johnson is one of the most remarkable mathematicians of her time. Her love of math began early in life and her brilliance ensured the safety of many NASA missions.

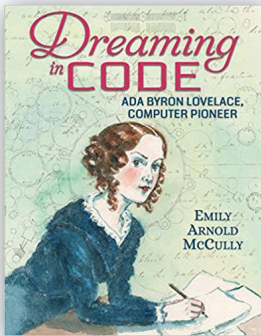


Darwin: An Exceptional Voyage

Fabien Grolleau

Illustrated by *Jérémie Royer*
Nobrow

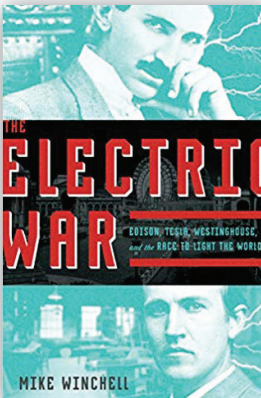
A biographical graphic novel detailing Darwin's journey of *The Beagle*, combining elements of historical fiction and science directly from Darwin's own writing.



Dreaming in Code, Ada Byron Lovelace, Computer Pioneer

Emily Arnold McCully
Candlewick Press

This book, appropriate for young adult readers, describes Ada Byron Lovelace's unusual upbringing, her love of mathematical puzzles, and her contributions to computer programming.

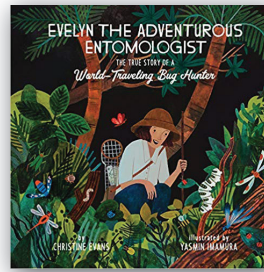


Electric War: Edison, Tesla, Westinghouse, and the Race to Light the World

Mike Winchell

Macmillan Children's Publishing Group /
Henry Holt and Co. (BYR)

Using both historical and bibliographic information, the book details the experiments, competitions, and grit of Edison, Tesla, and Westinghouse.

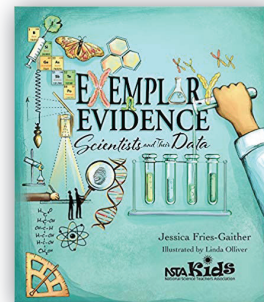


Evelyn, the Adventurous Entomologist: The True Story of a World-Traveling Bug Hunter

Christine Evans

Illustrated by *Yasmin Imamura*
The Innovation Press

Follow Evelyn Cheesman on her relentless and life-long pursuit of knowledge about animals, especially insects.

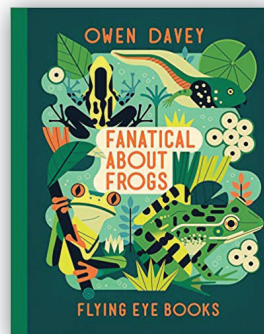


Exemplary Evidence: Scientists and their Data

Jessica Fries-Gaither

Illustrated by *Linda Olliver*
NSTA Kids

A great exploration of major scientific figures and the data they collected. This is a great, fun way to engage readers on the importance of evidence and data!



Fanatical About Frogs

Owen Davey

Flying Eye Books

This book will have readers leaping with excitement for its wonderful depictions of frogs. Filled with excellent information and great illustrations.



The Frog Book

Steve Jenkins and Robin Page

Houghton Mifflin Harcourt Books for Young Readers

Life cycle, types, and reproductive traits are presented in this colorfully illustrated guide to all things frog.



Hawking

Jim Ottaviani

Illustrated by *Leland Myrick*
Macmillan Children's Publishing Group /
First Second

A fascinating graphic biography of Stephen Hawking, full of humor and deep insight into black holes and cosmology.



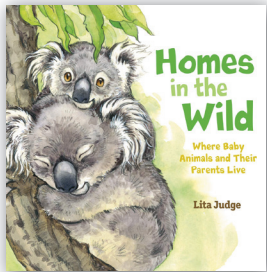
OUTSTANDING SCIENCE TRADE BOOKS



Hedy Lamarr's Double Life: Hollywood Legend and Brilliant Inventor

Laurie Wallmark
Illustrated by Katy Wu
Sterling Children's Books

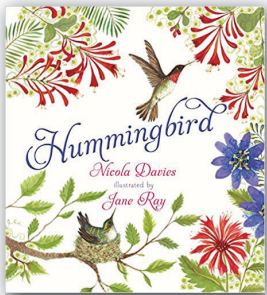
Hedy Lamarr was not just a Hollywood beauty, she was a creative and innovative inventor. Her invention of frequency hopping helped win the Second World War.



Homes in the Wild: Where Baby Animals and Their Parents Live

Written and illustrated by Lita Judge
Macmillan Children's Publishing Group /
Roaring Brook Press

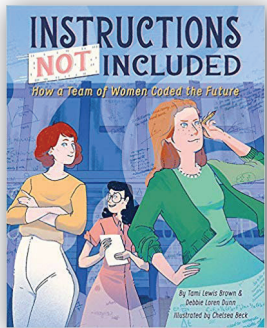
Helps readers connect to the idea that all animals need a home that serves as a place of refuge and safety for the growing young, regardless of shape or location.



Hummingbird

Nicola Davies
Illustrated by Jane Ray
Candlewick Press

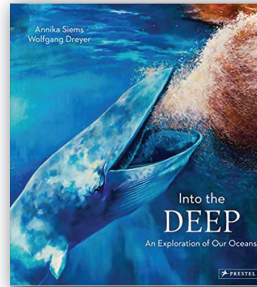
A beautifully illustrated book depicting the 2,000 mile migration north of the red-throated hummingbird.



Instructions Not Included: How a Team of Women Coded the Future

Tami Lewis Brown and
Debbie Loren Dunn
Illustrated by Chelsea Beck
Disney-Hyperion

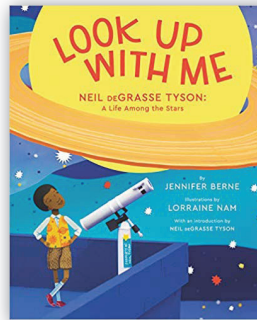
A historical look at how three women, Betty Snyder, Jean Jennings and Kay McCulty, changed the face of modern technology with their drive to explore, create, and invent.



Into the Deep: An Exploration of Our Oceans

Wolfgang Dreyer
Illustrated by Annika Siems
Prestel Junior

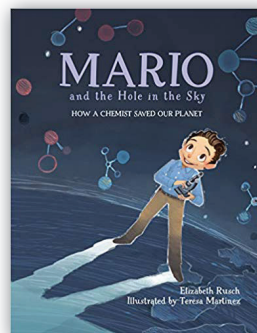
The latest deep sea research presented through compelling text and stunning illustrations.



Look Up with Me, Neil deGrasse Tyson: A Life Among the Stars

Jennifer Berne
Illustrated by Lorraine Nam,
introduction by Neil deGrasse Tyson
Katherine Tegen Books, an imprint of
HarperCollins

Explore the life of Neil deGrasse Tyson. Learn how his passion for the night sky drove him to become one of the best known astrophysicists in the world.

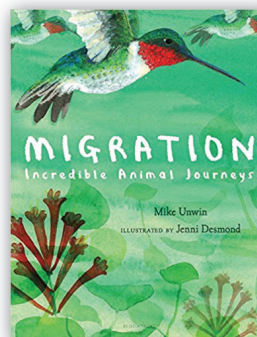


Mario and the Hole in the Sky: How a Chemist Saved Our Planet

Elizabeth Rusch
Illustrated by Teresa Martínez
Charlesbridge

Discover the life behind the man whose curiosity for the world, seen through a microscope, helped shed light on the ozone crisis of the 1980s.

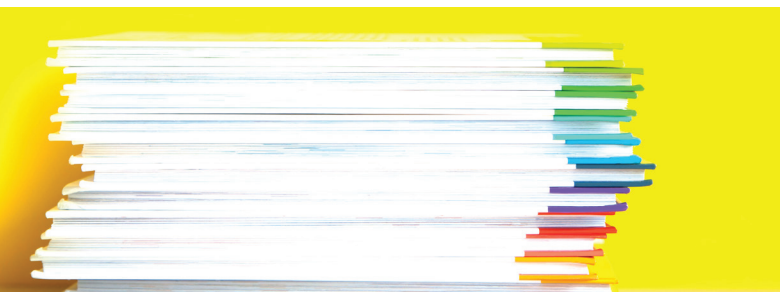
(Also in Spanish, *Mario y el agujero en el cielo: Cómo un químico salvó nuestro planeta*)

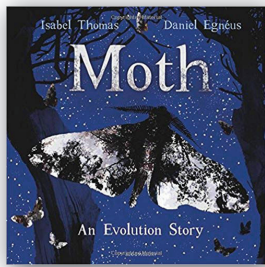


Migration: Incredible Animal Journeys

Mike Unwin
Illustrated by Jenni Desmond
Bloomsbury Children's Books

This introduction to animal migrations includes supportive maps and inserted tidbits about the role of humans interrupting migration patterns.



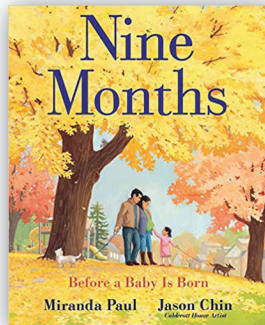


Moth: An Evolution Story

Isabel Thomas

Illustrated by Daniel Egnéus
Bloomsbury Children's Books

This true story of the peppered moth introduces young children to the mechanism of natural selection with a beautifully illustrated and easy to understand approach.

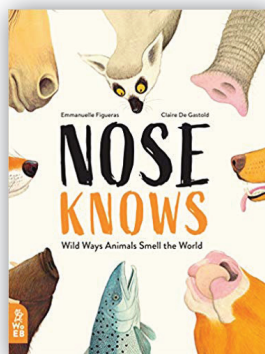


Nine Months

Miranda Paul

Illustrated by Jason Chin
Holiday House / Neal Porter Books

Through alternating panels depicts the story of a soon-to-be sister and her family preparing for a new baby with accurate illustrations of the stages of the fetus.

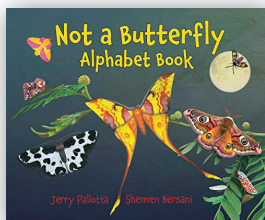


Nose Knows: Wild Ways Animals Smell the World

Emmanuelle Figueras

Illustrated by Claire de Gastold
What on Earth Books

Lift the flaps to learn about some of the wild methods animals use to communicate with each other using their noses, antennae, and scent glands.

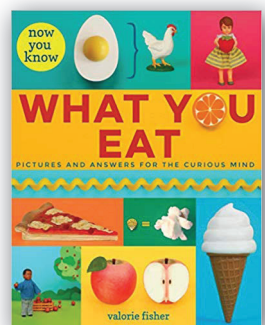


Not a Butterfly Alphabet Books

Jerry Pallotta

Illustrated by Shennen Bersani
Charlesbridge

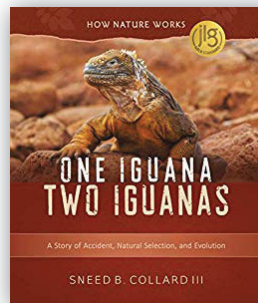
This beautiful collection and resource of the moth world will certainly make every butterfly jealous!



Now You Know What You Eat

Written and illustrated by Valorie Fisher
Scholastic / Orchard Books

A creative and engaging presentation of foods that children often eat, their ingredients, and the origin of these ingredients.

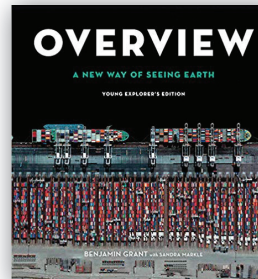


One Iguana, Two Iguanas: A Story of Accident, Natural Selection, and Evolution

Sneed B. Collard

Tilbury House Publishers

Through photographs and the story of two iguana species, this book provides an engaging mystery of how animals can evolve from a single ancestor and be so different.

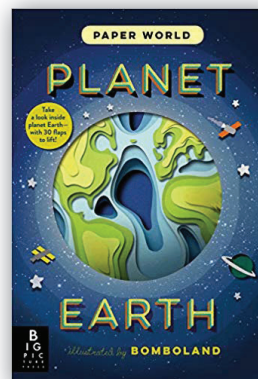


Overview, Young Explorer's Edition: A New Way of Seeing Earth

Benjamin Grant with Sandra Markle

Random House Children's Books / Crown BFYR

A stunning collection of satellite photographs and text that allows us to see Earth from a range of perspectives.

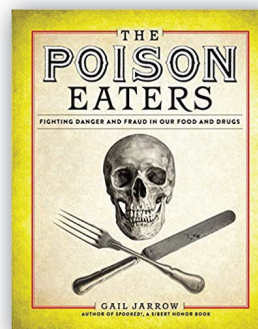


Paper World Planet

Bomboland

Candlewick Press / Big Picture Press

Discover the structures of Earth through flaps on every page full of interesting science facts.

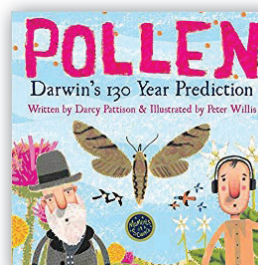


The Poison Eaters: Fighting Danger and Fraud in Our Food and Drugs

Gail Jarrow

Boyd's Mills & Kane / Calkins Creek

Discover events that led to the formation of the Food and Drug Administration, including the contributions of dedicated scientist Dr. Harvey Washington.



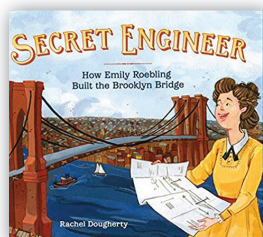
Pollen: Darwin's 130-Year Prediction

Darcy Pattison

Illustrated by Peter Willis

Mims House

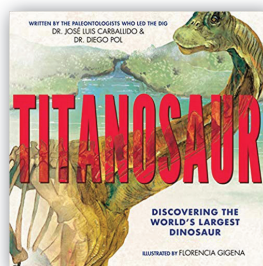
A marvelous history of Darwin's prediction of an unlikely moth and its proof, more than a century later.



Secret Engineer: How Emily Roebling Built the Brooklyn Bridge

Written and illustrated
by *Rachel Dougherty*
Macmillan Children's Publishing Group /
Roaring Brook Press

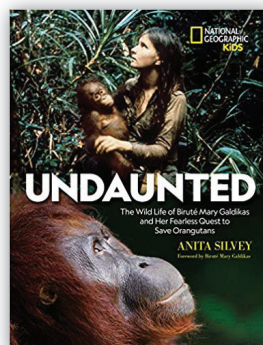
After her engineer husband falls ill,
Emily Roebling is left to secretly lead
the construction of the Brooklyn Bridge.



Titanosaur: Discovering the World's Largest Dinosaur

Dr. José Luis Carballido and Dr. Diego Pol,
Illustrated by *Florencia Gigena*
Scholastic

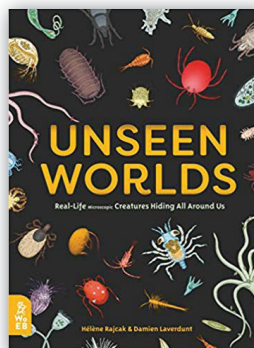
Learn about the discovery, excavation,
and study directly from the
paleontologists who led this dig in the
deserts of Argentina.



Undaunted: The Wild Life of Biruté Mary Galdikas and Her Fearless Quest to Save Orangutans

Anita Silvey
National Geographic Kids

Trials, perseverance, and palm oil
frame the struggle to urgently call
awareness to the plight of saving the
orangutans of Borneo.



Unseen worlds

Helene Rajcak and Damien Laverdunt
What on Earth Books

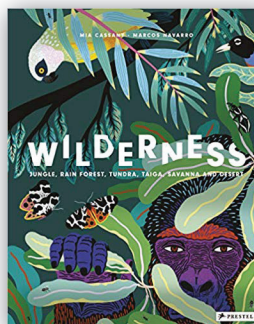
Supported by wonderful illustrations,
the text shares a collection of microscopic
organisms classified by areas in which
they live—your bed, leg, water, house.



What Miss Mitchell Saw

Hayley Barrett
Illustrated by *Diana Sudyka*
Simon & Schuster / Beach Lane Books

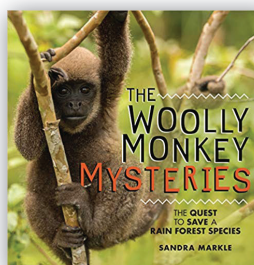
Maria Mitchell discovers a comet
and must prove she recorded her
discovery before male astronomers
claim the comet as their own.



Wilderness: Earth's Amazing Habitats

Mia Cassany
Illustrated by *Marcos Mavarro*
Prestel Junior

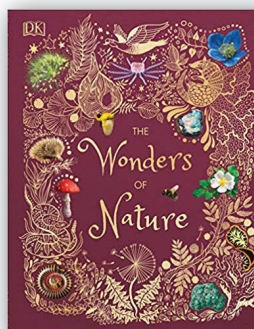
Get lost in Wilderness! Take a vacation
and go exploring in this book of the
world's habitats.



Woolly Monkey Mysteries: The Quest to Save a Rain Forest Species

Sandra Markle
Lerner Publishing Group / Millbrook Press

Learn how scientists in the Manu
Biosphere Reserve in Peru are
studying woolly monkeys, a keynote
species in the rain forest ecosystem.



The Wonders of Nature

Ben Hoare
DK

Beautiful illustrations depict some of
Earth's interesting inhabitants—both
living and nonliving.