

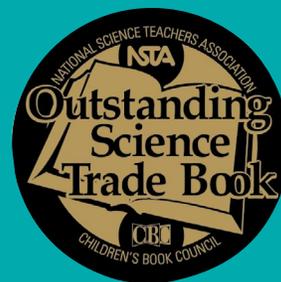


BOOKS
PUBLISHED
IN 2018

OUTSTANDING

SCIENCE TRADE BOOKS FOR STUDENTS K-12

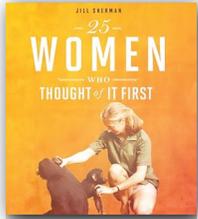
2019



NSTA National
Science
Teachers
Association

We invite you to explore this year's list of *Outstanding Science Trade Books*, which builds upon our 46-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.

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



25 Women Who Thought of it First

Jill Sherman
 Capstone/Compass Point Books

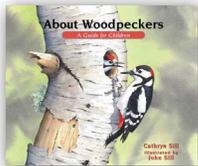
This book showcases 25 women who were instrumental in the advancement of science. Many of the women discussed also overcame great barriers on their way.



A Is for Australian Animals

Frané Lessac
 Candlewick Press

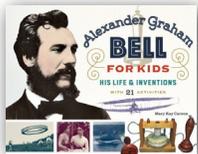
Beyond a simple alphabet book, this continent's fascinating animals are introduced with colorful descriptions and illustrations of their physical appearances and behaviors.



About Woodpeckers A Guide for Children

Cathryn Sill
 Illustrated by *John Sill*
 Peachtree Publishers

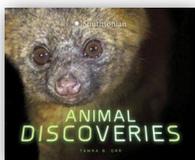
Explore the habitats, favorite meals, and homes of woodpeckers. Captivating illustrations paired with uncomplicated text make this book perfect for early elementary students.



Alexander Graham Bell for Kids His Life and Inventions, with 21 Activities

Mary Kay Carson
 Chicago Review Press

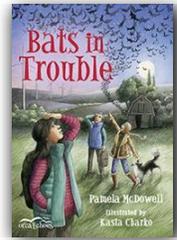
This is not your ordinary 'activity book' but one that is carefully curated to bring Alexander Graham Bell's work to life!



Animal Discoveries

Tamra B. Orr
 Capstone Press

Intriguing information and photographs about the large numbers of new species still being discovered.



Bats in Trouble

Pamela McDowell
 Illustrated by *Kasia Charko*
 Orca Book Publishers

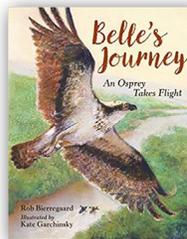
Friends turn detectives to uncover the reason for dead bats under wind turbines at Grandpa's farm, and appeal to the power-company with their evidence.



The Bee Book

Charlotte Milner
 DK Publishing

Learn about bees, their roles in our world, their decline, and ways people can help.



Belle's Journey An Osprey Takes Flight

Rob Bierregaard
 Illustrated by *Kate Garchinsky*
 Charlesbridge

Follow Belle, an osprey born on Martha's Vineyard, on her first journey to her winter home in Brazil and back.



Bonkers About Beetles

Owen Davey
 Nobrow/Flying Eye Books

Discover the fascinating world of beetles through this beautifully illustrated and well-designed book.

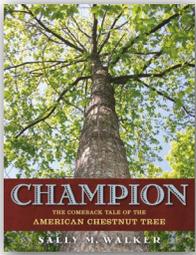


The Brilliant Deep Rebuilding the World's Coral Reefs

Kate Messner
 Illustrated by *Matthew Forsythe*
 Chronicle Books

As a young boy with a passion for the ocean, Ken Nedimyer developed a system for growing coral to help replenish damaged and dying coral reefs.

OUTSTANDING SCIENCE TRADE BOOKS



Champion The Comeback Tale of the American Chestnut Tree

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

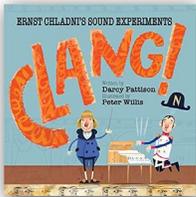
This book provides a vivid look at the history of one of America's greatest treasures, the chestnut, and the modern attempts to make a tree resistant to the blight that kills it.



Charles Darwin's On the Origin of Species

Adapted by Rebecca Stefoff
Simon & Schuster/Atheneum Books For Young Readers

The topics of genus and species, instinct and inheritance, and biodiversity and mutations come to life in this young readers' edition of The Origin of Species.



Clang Ernst Chladni's Sound Experiments

Darcy Pattison
Illustrated by *Peter Willis*
Mims House

A sound representation of sound! Takes the, sometimes hard to grasp, concept of sound and sound waves and makes it fun to learn.



The Coral Kingdom

Laura Knowles
Illustrated by *Jennie Webber*
The Quarto Group/words & pictures

A beautifully illustrated story of bringing the coral reefs back to life; strong story of regeneration and the part humans can play in saving the coral reefs.



Countdown 2979 Days to the Moon

Suzanne Slade
Illustrated by *Thomas Gonzalez*
Peachtree Publishers

This novel-in-verse takes us on the compelling journey from President Kennedy's call for the United States to land a person on the moon to our first moon landing.



Counting Birds The Idea That Helped Save Our Feathered Friends

Heidi E.Y. Stemple
Illustrated by *Clover Robin*
The Quarto Group/Seagrass Press

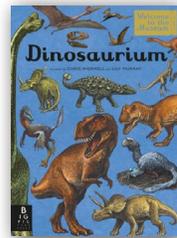
The story of how over 100 years ago Frank Chapman helped shift traditional Christmas bird hunts to bird counts in a compelling citizen science effort that continues on today.



Counting on Katherine How Katherine Johnson Saved Apollo 13

Helaine Becker
Illustrated by *Dow Phumiruk*
Macmillan Children's Publishing Group/
Henry Holt and Co. (BYR)

During segregation, young Katherine Johnson desires to pursue her love of mathematics and eventually is recognized as the only person who can successfully calculate the flight path for the Apollo 13 mission.



Dinosaurium Welcome to the Museum

Lily Murray
Illustrated by *Chris Wormell*
Candlewick Press/Big Picture Press

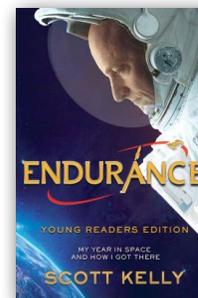
An astonishing and visual treasure trove of dinosaur history throughout Earth's early geologic periods.



Eavesdropping on Elephants How Listening Helps Conservation

Patricia Newman
Lerner Publishing Group/Millbrook Press

Follow the clues with the actual scientists as they piece together elephants' complex infrasound communication to understand and protect this highly intelligent animal.

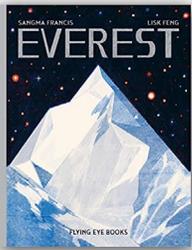


Endurance, Young Readers Edition My Year in Space and How I Got There

Scott Kelly
Random House Children's Books/Crown BFYR

A compelling and honest account of the difficulties of life on Earth and on the International Space Station.

OUTSTANDING SCIENCE TRADE BOOKS

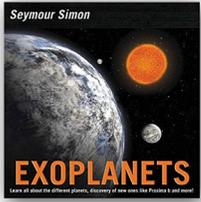


Everest

Sangma Francis

Illustrated by *Lisk Feng*
Nobrow/Flying Eye Books

Through myths, stories, and scientific details, this book guides the reader from base camp to the peak of the world's highest peak.

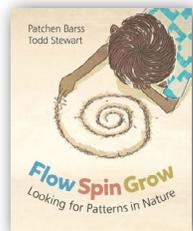


Exoplanets

Seymour Simon

HarperCollins

A comprehensive look at everything we know about planets outside our solar system, from a master of the genre.



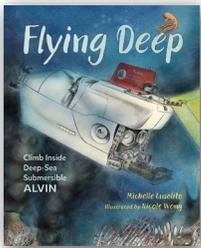
Flow, Spin, Grow

Looking for Patterns in Nature

Patchen Barss

Illustrated by *Todd Stewart*
Owlkids Books

An introduction to kids to show them how to find patterns in nature and the world around them.



Flying Deep

Climb Inside Deep-Sea Submersible Alvin

Michelle Cusolito

Illustrated by *Nicole Wong*
Charlesbridge

Take your readers along on a journey as a scientist aboard the submersible The Alvin. Deep into the deep, deep sea. Fly along in the water while you explore all that the ocean has to offer you!

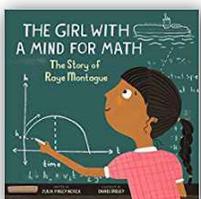


Fur, Feather, Fin—All of Us are Kin

Diane Lang

Illustrated by *Stephanie Laberis*
Simon & Schuster/Beach Lane Books

This book examines the differences and similarities that animals have with engaging pictures.



The Girl With a Mind for Math

The Story of Raye Montague

Julia Finley Mosca

Illustrated by *Daniel Rieley*
The Innovation Press

The true story of a mathematically gifted African-American female engineer, who persisted through systemic barriers, to develop a computer generated design for ships in the U.S. Navy.



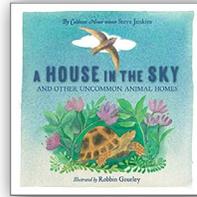
Hidden Figures

The True Story of Four Black Women and the Space Race

Margot Lee Shetterly

Illustrated by *Laura Freeman*
HarperCollins

This is a beautifully illustrated picture book edition of four female African-American mathematicians at NASA who overcame racial and gender barriers to succeed.

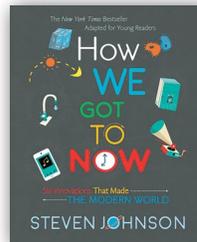


A House in the Sky

Steve Jenkins

Illustrated by *Robbin Gourley*
Charlesbridge

This book provides a look at different ways that animals shelter themselves with simple text and watercolor illustrations.



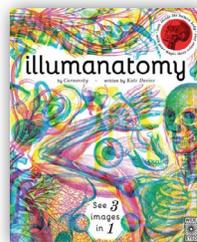
How We Got to Now

Six Innovations That Made the Modern World

Steven Johnson

Penguin Young Readers/Viking BFYR

A captivating exploration of our relationship with water, cold, light, sound, clean, and time through the historic lens of science discoveries and innovative technology and engineering.

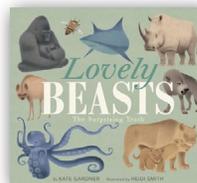


Illuminatomy

Kate Davies

Illustrated by *Carnovsky*
The Quarto Group/Wide Eyed Editions

This unique book explores the skeleton, muscles, organs, and blood vessels with special glasses that allow readers to experience the human body in detail.



Lovely Beasts

The Surprising Truth

Kate Gardner

Illustrated by *Heidi Smith*
HarperCollins/Balzer+Bray

One word commonly used to describe animals is juxtaposed with the truth about the nature of the beasts to help dispel myths of long-feared creatures.

OUTSTANDING SCIENCE TRADE BOOKS

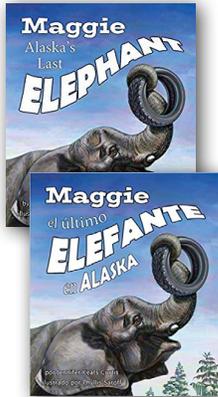


Mae Among the Stars

Roda Ahmed

Illustrated by *Stasia Burrington*
HarperCollins

Despite being told by everyone outside her family that she could not achieve her lifelong dream of becoming an astronaut, Mae Jemison continues to pursue her dream and became the first African-American female in space.



Maggie

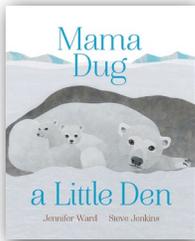
Alaska's Last Elephant

Jennifer Keats Curtis

Illustrated by *Phyllis Saroff*
Arbordale Publishing

(Also available in Spanish: *Maggie, el último elefante en Alaska*)

When Maggie became the lone elephant at Alaska Zoo, her keepers tried creative solutions to ease her loneliness until they found her a more natural home with a new elephant family.

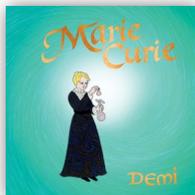


Mama Dug a Little Den

Jennifer Ward

Illustrated by *Steve Jenkins*
Simon & Schuster/Beach Lane Books

Mamas make sure home is a safe place for baby critters. Tender poetry and facts pair with colorful illustrations to help readers learn about different types of animal homes.



Marie Curie

Demi

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

This is a beautifully illustrated book that portrays the life of Marie Curie beginning with her childhood.



National Parks of the USA

Kate Siber

Illustrated by *Chris Turnham*
The Quarto Group / Wide Eyed Editions

Vintage-inspired illustrations take readers on a tour of the National Park of the United States. Information on the history of the areas, interesting facts, and even tips for things to do and see!



Nothing Stopped Sophie

The Story of Unshakable Mathematician
Sophie Germain

Cheryl Bardoe

Illustrated by *Barbara McClintock*
Little, Brown Books for Young Readers

Becoming a mathematician was unheard of for a young woman, especially during the French Revolution, but nothing stopped Sophie. The true story of Sophie Germain is truly inspiring.



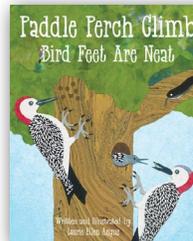
Otis and Will Discover the Deep

The Record-Setting Dive of the
Bathysphere

Barb Rosenstock

Illustrated by *Katherine Roy*
Little, Brown Books for Young Readers

Incredible illustrations compliment the true story of Otis Barton and Will Beebe's harrowing journey to be the first to explore the depths of the ocean in their small metal sphere.



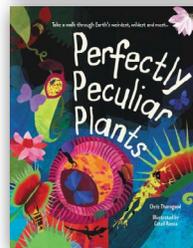
Paddle Perch Climb

Bird Feet are Neat

Laurie Ellen Angus

Dawn Publications

Adaptations! A perfectly simple explanation of the adaptation of bird's feet.

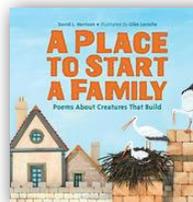


Perfectly Peculiar Plants

Chris Thorogood

Illustrated by *Catell Ronca*
The Quarto Group/words & pictures

From sea beans and squirting cucumbers to baobab trees and Venus fly traps, discover Earth's most peculiar plants.



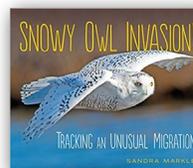
A Place to Start a Family

Poems About Creatures That Build

David L. Harrison

Illustrated by *Giles Laroche*
Charlesbridge

Structures created by animals to attract a mate and have babies are described in this poetry collection that blends science and verse.



Snowy Owl Invasion!

Tracking an Unusual Migration

Sandra Markle

Lerner Publishing Group/Millbrook Press

Follow scientists and birdwatchers alike as they experience an unprecedented migration pattern of snowy owls.



Sounds of Nature World of Birds

Robert Frank Hunter
The Quarto Group/Wide Eyed Editions

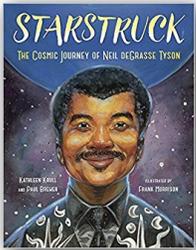
Not only do the birds and their information fly off the pages of this beautifully illustrated book, but each bird habitat comes alive with real bird sounds.



Spring After Spring How Rachel Carson Inspired the Environmental Movement

Stephanie Roth Sisson
Macmillan Children's Publishing Group/Roaring Brook Press

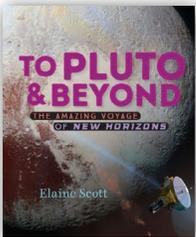
The story of how young Rachel Carson's curiosity led to the publishing of *The Silent Spring* and sparked a nation's desire to learn more about their impact on the environment.



Starstruck The Cosmic Journey of Neil deGrasse Tyson

Kathleen Krull and Paul Brewer
Illustrated by *Frank Morrison*
Random House Children's Books/Crown BFYR

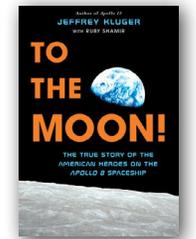
From formative experiences at the Hayden Planetarium in New York City to exploring the stars in the countryside, this is a story of famed astrophysicist Neil DeGrasse Tyson and his insatiable curiosity about space.



To Pluto and Beyond

Elaine Scott
Penguin Young Readers/Viking BFYR

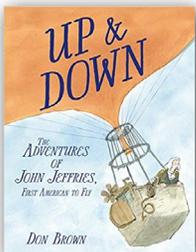
The story of the development and journey of the New Horizons spacecraft including the scientists' expectations and hopes for the mission. Included with the exciting discoveries being made are the incredible images the spacecraft is sending back to Earth.



To the Moon! The True Story of the American Heroes on the Apollo 8 Spaceship

Jeffrey Kluger with Ruby Shamir
Penguin Young Readers/Philomel Books

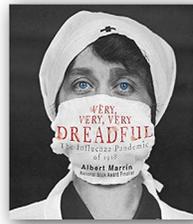
This book engages readers in the inspiring story of America's journey to get the first spaceship, with the three astronauts on board, to reach the Moon.



Up & Down

Don Brown
Charlesbridge

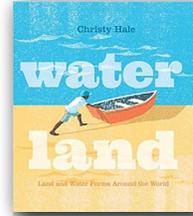
Follow Dr. John Jeffries' experiments with hot air balloon travel as he demonstrates creative problem solving and becomes the first person to successfully traverse the English Channel in a hot air balloon.



Very, Very, Very Dreadful The Influenza Pandemic of 1918

Albert Marrin
Random House Children's Books/Alfred A. Knopf BFYR

The journey of influenza in 1918 from soldiers to civilians, and how it became a global pandemic.



Water Land Land and Water Forms Around the World

Christy Hale
Macmillan Children's Publishing Group/Roaring Brook Press

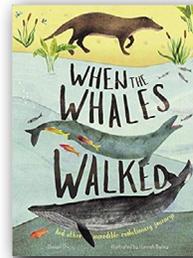
A creative, unique, and thought-provoking presentation of landforms.



When Sparks Fly The True Story of Robert Goddard, the Father of US Rocketry

Kristen Fulton
Illustrated by *Diego Funck*
Simon & Schuster/Margaret K. McElderry Books

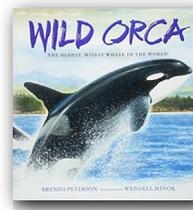
A young boy pursues his curiosity of rockets. Over time, he learns from mistakes and persists in developing successful rockets that eventually become essential to the space program.



When the Whales Walked And Other Incredible Revolutionary Journeys

Dougal Dixon
Illustrated by *Hannah Bailey*
The Quarto Group/words & pictures (imprint)

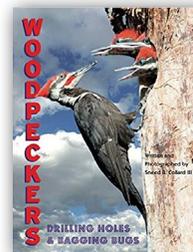
This book uses family trees, illustrated scenes, and annotated illustrations to step back in time when whales walked or snakes had legs and explore the changes over time through 13 case studies.



Wild Orca The Oldest, Wisest Whale in the World

Brenda Peterson
Illustrated by *Wendell Minor*
Macmillan Children's Publishing Group/
Henry Holt and Co. (BYR)

A family joins the yearly tradition of community and scientists watching and listening for Granny, the world's oldest known orca, and her family. Will they return to the San Juan Islands?



Woodpeckers Drilling Holes and Bagging Bugs

Sneed B. Collard III
Bucking Horse Books

Have you ever wondered what woodpeckers like to eat or how is it they can tap-tap-tap all day and not get a headache? Find the answers to these questions and more in this book of beautiful photographs and engaging narrative.