

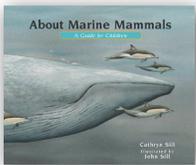
OUTSTANDING SCIENCE TRADE BOOKS FOR STUDENTS K–12: 2017

BOOKS PUBLISHED IN 2016

WINNING TITLES

We invite you to explore this year's list of Outstanding Science Trade Books, which greatly adds to our 44-year history. In the award-winning books below, you'll find not only traditional science content but engineering and design as well. We hope you'll enjoy enhancing your spirit of inquiry as you explore science through trade books.

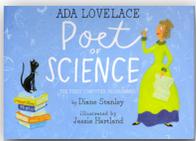
For further information, please visit WWW.NSTA.ORG/PUBLICATIONS/OSTB/ and WWW.NSTA.ORG/RECOMMENDS/



About Marine Mammals
Catherine Sill
Illustrated by *John Sill*

Peachtree Publishers.

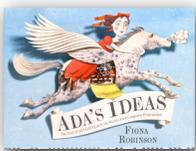
Concise text about marine mammals is supported by full-page illustrations depicting various species in their habitats.



Ada Lovelace, Poet of Science
Diane Stanley
Illustrated by *Jessie Hartland*

Simon & Schuster/Paula Wiseman Books

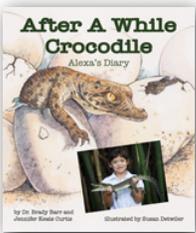
This is a beautifully illustrated story of a young girl born to the famous poet Lord Byron and mathematically minded Annabella who uses her talents to write the first computer program.



Ada's Ideas
Fiona Robinson

ABRAMS

An inspirational story of Ada Lovelace who overcame struggles to pursue her interests in math and science



After A While Crocodile
Dr. Brady Barr and Jennifer Keats Curtis
Illustrated by *Susan Detwiler*

Arbordale Publishing

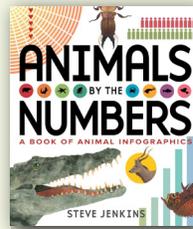
Through her journal entries readers follow Alexa, a Costa Rican schoolgirl, as she cares for an American crocodile and then releases him to the wild.



Ancient Earth Journal: The Late Jurassic

Juan Carlos Alonso and Gregory S. Paul
Quarto/Walter Foster Jr.

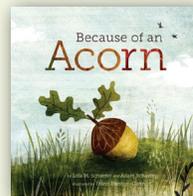
Take a visual tour through the late Jurassic period of geologic time and explore, through beautiful illustrations, the diversity of dinosaurs that inhabited Earth approximately 150 million years ago.



Animals by the Numbers
Steve Jenkins

HMH Books for Young Readers

Interesting infographics that compare features of various animals in appealing visuals.

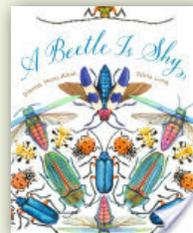


Because of an Acorn
Lola M. and Adam Schaefer

Illustrated by *Frann Preston-Gannon*

Chronicle Books

Beautifully illustrated story of interconnections in the forest ecosystem.



A Beetle is Shy

Dianna Hutts Aston

Illustrated by *Sylvia Long*

Chronicle Books

This intricately illustrated book showcases the fascinating world of beetles and is sure to spark the imagination of readers of all ages.

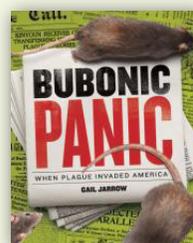


Best in Snow

April Pulley Sayre

Simon & Schuster/Beach Lane Books

Descriptive words, minimal text, and breathtaking photos tell the story of snowfall, snow melt, and the seeping of water into the Earth.



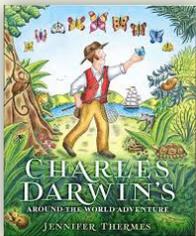
Bubonic Panic

Gail Jarrow

Boyd's Mills Press/Calkins Creek

This book combines gruesome photographs with a detailed description of this horrific disease. This is a riveting historical recount of this major breakout.

OUTSTANDING SCIENCE TRADE BOOKS

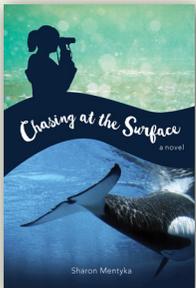


Charles Darwin's Around the World Adventure

Jennifer Thermes

ABRAMS

The biographical path, scientific explorations, and discoveries that encompassed the life of Charles Darwin are detailed in this appropriately aged text and through engaging drawings.

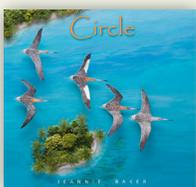


Chasing at the Surface.

Sharon Mentyka

Graphic Arts Books/WestWinds Press

A pod of stranded orcas is protected and saved by the determined effort of a girl, her friends and community, and scientists.



Circle

Jeannie Baker

Candlewick Press

Join the bar-tailed godwits as they circle from their breeding grounds in the Arctic to Australia and New Zealand and back again in this beautifully illustrated story.

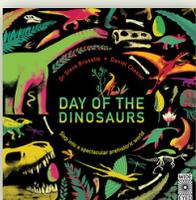


Cleared for Takeoff

Rowland White

Chronicle Books

Any reader interested in man's pursuit of flight will be taken on the ride of a lifetime as all areas related to flight, whether it is technological, historical or related to human interest, are examined in this book.



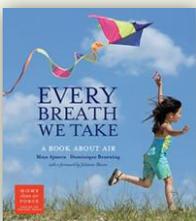
Day of the Dinosaurs

Steve Brusatte

Illustrated by Daniel Chester

Quarto/Wide Eyed Editions

"Step back into a spectacular prehistoric world" and explore the rise and fall of the dinosaurs along with some of their unique defense mechanisms, diets, and environmental habitats during their approximately 187 million year reign on Earth.

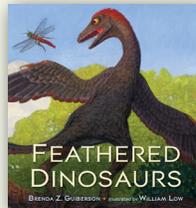


Every Breath We Take

Maya Ajmera and Dominique Browning

Charlesbridge

Through bright photographs and simple text structure, this book examines how air is needed by living creatures and useful for other activities we engage in as well.



Feathered Dinosaurs

Brenda Z. Guiberson

Illustrated by William Low

Macmillan Children's Publishing Group/Henry Holt

A diverse array of dinosaurs richly illustrated and showing feathers as a major evolutionary development, which gives evidence of the "connection between the feathered dinosaurs and modern birds."

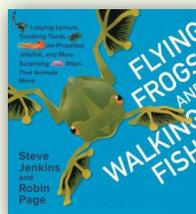


Florence Nightingale

Catherine Reef

HMH Books for Young Readers/Clarion Books

An informative biography of Florence Nightingale with a historical context recounting her struggles and contributions to society.

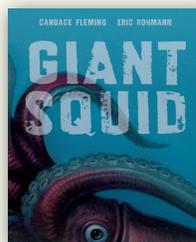


Flying Frogs and Walking Fish

Steve Jenkins and Robin Page

HMH Books for Young Readers

Walking, leaping, swimming, and other actions are explored to describe how animals move from place to place and survive by escaping predators and catching their own prey.



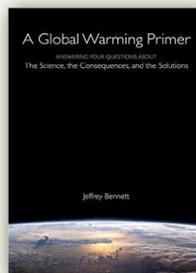
Giant Squid

Candace Fleming

Illustrated by Eric Rohmann

Macmillan Children's Publishing Group/Roaring Brook Press

Beautifully illustrated book about the mysterious life of the elusive giant squid.

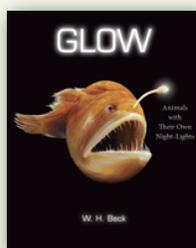


A Global Warming Primer

Jeffrey Bennett

Big Kid Science

A straightforward and easy read concerning the impact of humans upon Earth's climate through the use of a question and answer format that will assist the reader to better understand the "The Science, The Consequences, and The Solutions" of a warming climate.

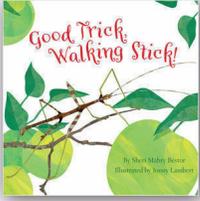


Glow

W. H. Beck

HMH Books for Young Readers

An exploration of how living organisms utilize bioluminescence to survive within their environments.



Good Trick, Walking Stick!

Sheri M. Bestor

Illustrated by *Jonny Lambert*

Sleeping Bear Press

Through both narrative and expository text features as well as whimsical pictures that convey additional information, the life cycle of a walking stick is examined.



The Great White Shark Scientist

Sy Montgomery

Illustrated by *Keith Ellenbogen*

HMH Books for Young Readers

Follow a team of researchers led by biologist Greg Skomal as they study the largest and most feared fish, the great white shark.

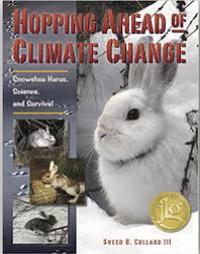


Grow! Raise! Catch!

Shelley Rotner

Holiday House, Inc.

Rotner takes readers through the farm-to-table process through colorful photos of food and the farmers who produce it.

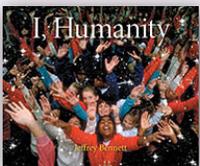


Hopping Ahead of Climate Change

Sneed B. Collard III

Bucking Horse Books

Highlights the fascinating climate change research of one scientist from the perspective of one species.

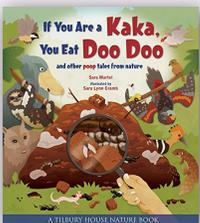


I, Humanity

Jeffrey Bennett

Big Kid Science

The story of our place in the universe told through the collective voice of humanity.



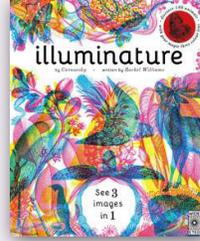
If You Are a Kaka, You Eat Doo Doo

Sara Martel

Illustrated by *Sara Lynn Cramb*

Tilbury House Publishers

Fascinating and fun stories about the role poo plays in different animal adaptations.



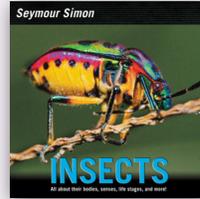
illuminature

Rachel Williams

Illustrated by *Carnovsky*

Quarto/Wide Eyed Editions

Use a three color lens to explore the world with respect to its diverse habitats, animals that roam by day, and creatures that come out at night.

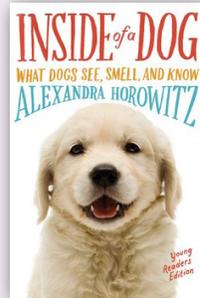


Insects

Seymour Simon

HarperCollins Children's Books

Exquisite up-close photographs support the interesting text about the characteristics and classifications of various insect species.



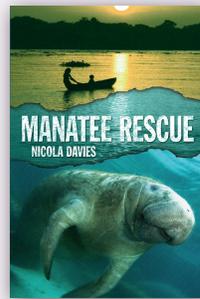
Inside of a Dog

Alexandra Horowitz

Illustrated by *Sean Vidal Edgerton*

Simon & Schuster/S&S Books for Young Readers

Understand dogs on a whole new level by exploring how they see, feel, perceive, and communicate with their world.



Manatee Rescue

Nicola Davies

Illustrated by *Annabel Wright*

Candlewick Press

A girl's commitment to save an orphaned manatee changes the attitudes of her community.

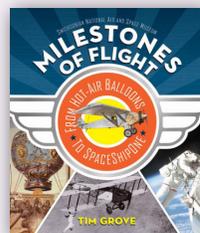


Marie Curie for Kids

Amy M. O'Quinn

Chicago Review Press

An inspirational biography of the legendary scientist tailored for young adults, accompanied by dozens of historical photos and activities that explain Curie's valuable contribution to science.

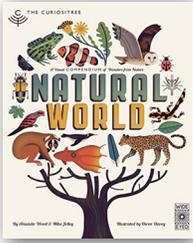


Milestones of Flight

Tim Grove

ABRAMS

Soar through time as you read about specific achievements in aviation. Much of this book's inspiring illustrations come from the Smithsonian's collection.



Natural World

Amanda Wood and Mike Jolley
Illustrated by *Owen Davey*

Quarto/Wide Eyed Editions

This book allows the reader to create his/her own learning adventure while looking through stunning illustrations and a treasure trove of information about our natural world.

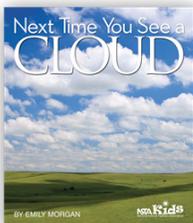


Nefertiti, the Spidernaut

Darcy Pattison
Illustrated by *Valeria Tisnés*

Mims House

The true story of an investigation to see if a spider could adapt to living in an environment without gravity on the International Space Station and then going back to gravity on Earth.



Next Time You See a Cloud

Emily Morgan
Photos by *Judd Patterson, Tom Uhlman, Steven David Johnson, and NASA*

NSTA Press/NSTA Kids

Take a closer look at clouds through striking photography and answers to everyday questions.

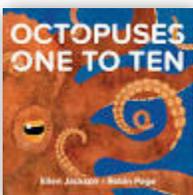


Notable Notebooks

Jessica Fries-Gaither
Illustrated by *Linda Olliver*

NSTA Press/NSTA Kids

An overview of how notebooks are used in science with examples from the field.

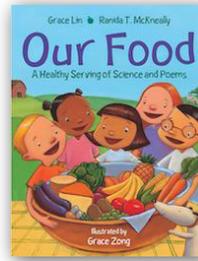


Octopuses One to Ten

Ellen Jackson
Illustrated by *Robin Page*

Simon & Schuster/Beach Lane Books

More than a counting book, this book describes the unique characteristics of octopuses through rhyming text and engaging illustrations.

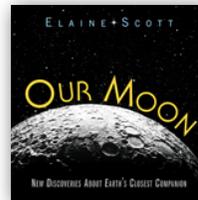


Our Food

Grace Lin and Ranida T. McKneally
Illustrated by *Grace Zong*

Charlesbridge

Answers to questions such as "why are so many vegetables green?" are asked and answered as children visit a farm and learn about the different types of food we eat through informative text and short, witty poems.

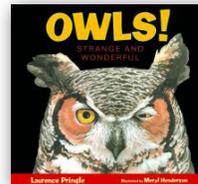


Our Moon

Elaine Scott

HMH Books for Young Readers/Clarion Books.

A look at our evolving understanding of Earth's nearest neighbor from a historical perspective to the most recent discoveries.

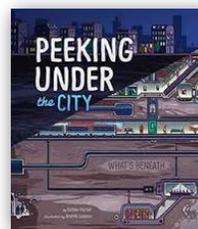


Owls!

Laurence Pringle
Illustrated by *Meryl Henderson*

Boyd's Mills Press

Enter the world of Owls through this beautifully illustrated book filled with unusual information about owls from all over the world.

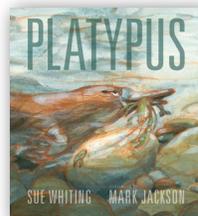


Peeking Under the City

Esther Porter
Illustrated by *Andrés Lozano*

Capstone Press

The reader is taken on a graphically illustrated journey beneath the city to all of the aspects of life that are found there, ranging from transportation to infrastructure to evidence of long ago.



Platypus

Sue Whiting
Illustrated by *Mark Jackson*

Candlewick Press

Captivating illustrations accompanied by lyrical language bring readers into the fascinating world of the platypus.

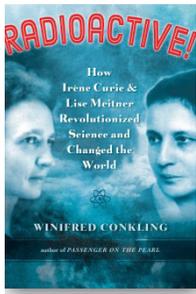


Poop Detectives

Ginger Wadsworth

Charlesbridge

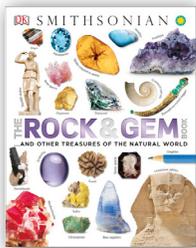
Examines the use of scat detection dogs on land and sea in scientific research.



Radioactive!
Winifred Conkling

Algonquin Young Readers

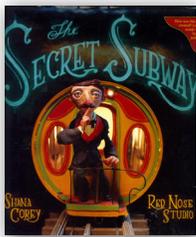
Science and history are woven together in this chapter book about two important physicists whose contributions are often overlooked.



The Rock and Gem Book

DK

Accurate, colorful illustrations with easy to read descriptions of many common rocks and gems found on Earth. What a great reference tool for any personal or school library!

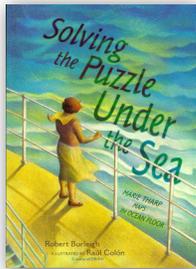


The Secret Subway

Shana Corey

Illustrated by *Red Nose Studio*

Random House Children's Books/Schwartz & Wade
Incredibly fascinating illustrations help tell a little known but true story of the first underground subway in New York City. Readers will be captivated by the story itself and the description of how the illustrations were created.



Solving the Puzzle Under the Sea

Robert Burleigh

Illustrated by *Raúl Colón*

Simon & Schuster/Paula Wiseman Books

This beautifully illustrated biography presents the story of Marie Tharp, the first person to successfully chart the floor of the Atlantic Ocean.



Squirrels Leap, Squirrels Sleep

April Pulley Sayre

Illustrated by *Steve Jenkins*

Macmillan Children's Publishing Group/Henry Holt.

The actions of squirrels set to rhyme. More detailed explanations of the actions described are included at the end of the book.



Strange, Unusual, Gross & Cool Animals

Animal Planet and Charles Ghigna

Time Inc. Books/Liberty Street

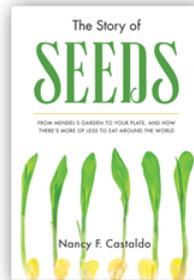
A stunning visual encyclopedia that shares lesser-known information about unique animals.



Super Cool Tech

DK

This uniquely designed book guides readers through a look at cutting edge technology and its secrets. Full-color images, cutaways, and digital artwork make this book visually enjoyable.

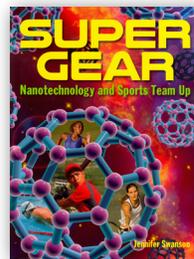


The Story of Seeds

Nancy Castaldo

HMH Books for Young Readers/Clarion Books

The impact of modern day science and technology ranging from genetically modified foods to the importance of maintaining seed vaults is examined from the context that seeds have an extremely important job in the world—the production of food.

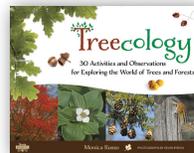


Super Gear

Jennifer Swanson

Charlesbridge

The future is now! Discover the nano-inventions that are changing our lives.



Treeecology

Monica Russo

Photos by *Kevin Byron*

Chicago Review Press

A delightful introduction to trees, this information-packed resource has activities and observations for nature enthusiasts of all ages.



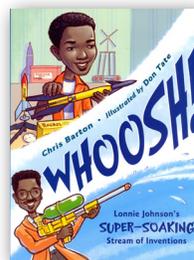
Under Water, Under Earth

Aleksandra Mizielinska and

Daniel Mizielinski

Candlewick Press/Big Picture Press

Simple but mesmerizing illustrations in the book explore mysteries beneath water and earth to captivate the reader's imagination.



Whoosh!

Chris Barton

Illustrated by *Don Tate*

Charlesbridge

The biography of a creative NASA engineer who invented one of the most famous water toys is presented through lively text and captivating illustrations.