Books Grades K-5











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Our eBooks + Authors



Rebecca Olien is the author of over 50 books for children and educators. She was a lead science teacher and curriculum developer during her twenty years teaching kindergarten, grade 4, grade 5, and middle school. Her degrees include a masters in educational technology, an undergraduate major in environmental science, a minor in Earth science, and elementary education certification. She works now as a freelance science education developer, STEM designer, and curriculum specialist and teaches for the READ Oregon program. Her work includes designing lessons that use real world data, global connections, and project-based learning.



Mark Eastburn has taught science and Spanish in the public elementary schools of Princeton, New Jersey for seventeen years. He graduated from St. Mary's College of Maryland with a B.A. in Biology, and received his M.S. in Biology from Villanova University. In addition to leading student-centered studies on neuroscience and local populations of boxturtles, pollinating insects, and salamanders, he conducts research on plant-eating jumping spiders, writes, and travels to biodiversity hotspots whenever he can. He lives in Pennsylvania with his wife and two children, a dog, two cats, two rabbits, and two tortoises.



Sean Musselman is a K-8 science specialist for the Burlington, Massachusetts Public Schools and a science methods instructor for Cambridge College. He volunteers his time with the National Science Teachers Association as a curator of classroom resources for the NGSS@NSTA Hub and as the coordinator of the Burlington K-8 robotics programs.

Sean also supports facilitation of NSTA's "Discover the *NGSS*" professional development workshop. A graduate of the University of Massachusetts - Amherst with a Geology: Earth Systems degree in 2006, he has been focused on uncovering the mysteries and wonder of our Earth with his students ever since.

Books Kids

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We plan to produce approximately 100 e-books covering science and engineering content in grades K–5.

Sound All Around

Rebecca Olien

Lexile[®] Measure: 470

The Sound All Around interactive e-book uses a variety of everyday events to introduce the concept of sound. Students explore how to make sounds, how sound travels, and how sounds are used. Characters Molly and Juan guide students to make discoveries that put concepts into context, using inventive critical-thinking in a playful exploration of sounds all around.

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The Amazing Light Show

Rebecca Olien

..... The Amazing Light Show **Books**Kids

Lexile[®] Measure: 510

What happens when light encounters different objects and surfaces? Follow two characters, Liz and Sam, while they put on a light show to investigate this question. In the first act, Liz and Sam invite the reader to question, observe, and investigate the phenomenon that some materials let light pass through, some let only a little bit of light through, and some block light completely and create dark shadows. Students will analyze and interpret how the size and shape of shadows can change depending on direction and distance from a light source. This requires mathematical reasoning as they explore scale and proportion. In Act 2, readers investigate the phenomenon of reflection as they investigate the effects of light bouncing from smooth, shiny surfaces. They will construct explanations and design solutions as they assist the story characters to solve reflection puzzles using mirrors to change the direction of a beam of light. By the end of the e-book, students should be able to answer "what is the effect of placing different materials in the path of a beam of light?"

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Stock Nº: PEY005

I Live Where I Live Because...

NSTA Lexile® Measure: 720L

In order to survive in an environment, organisms have many different physical characteristics that help regulate their temperature, move, find food, and protect themselves. The students first analyze data from a case study on the peppered moth, learning about how organisms are adapted to their environment and how a change can affect their ability to survive. Students then explore physical adaptations–from feet to teeth to color–in order to develop an argument from evidence as to why an organism can survive well in one environment and less well in another.

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Home Is Where My Habitat Is

Mark Eastburn

Lexile[®] Measure: 720L

Many different plants and animals live in any given habitat, both on land and in the water. To explore this phenomenon, we follow a jumping spider named Kippy in her search for a new habitat. This spider belongs to the species *Bagheera kiplingi*, which lives in the tropical dry forest ecosystem of northwestern Costa Rica. This particular animal was chosen because, unlike most spiders, *Bagheera kiplingi* feeds primarily on the nutritious leaf tips of acacia trees, making it the only known vegetarian spider. Though her original habitat is small, some of the animals that Kippy encounters require much larger habitats. Diversity doesn't just exist in the types of plants and animals but in form and habits as well. As the story progresses, students make observations and use evidence to determine the habitat needs of various species, reinforcing the concept of habitat and diversity while inspiring children to think about habitats and how they may be appreciated and restored around the world, as well as close to home.

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Stock Nº: PEY004

Investigating Weather and Climate

Sean Musselman

Lexile[®] Measure: 820L

The e-book explores how humans collect weather data on which a variety of weather and climate graphs and charts are built. It leads students to construct their own meaning from the patterns they uncover in the data and answering the driving question, "what can we learn by observing and recording weather data?"

© 2017; ISBN: 978-1-68140-587-2

Stock №: PEY001

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*

the playground?

Check Your Thinking
What was the lowest temperature when rain fell? The highest?
Check YC
How would y
reen precipitation and temperature?
Check YC

Temperature (°F)

13

What was the lowest temperature when sleet fell? The highest?

20 21 22 23 24 Temperature (°F)

That sloth doesn't look scary, so Kippy decides close to her acacia tree, but is it a safe place to jumpr

No way! The insect under that leaf is called a mantis, and it will definitely eat a small spider. Is this the only insect that can harm Kippy?

(**) = 1 Day of Snow

.**..**}

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