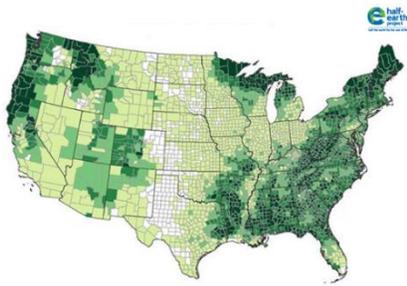


Educational Resources



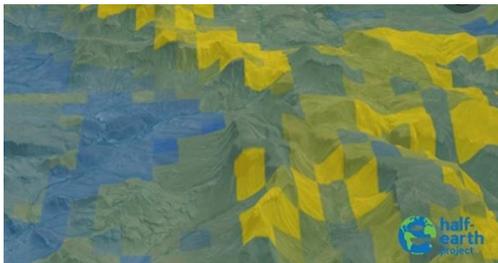
[Mapping Design Challenge](#)

Students become champions of biodiversity in this mapping design challenge. Your students will work in teams to answer the challenge of putting half of the United States into protection for biodiversity, grapple with evidence, and become motivated to learn more about conserving biodiversity.



[The Richness and Rarity of Hummingbirds: A Guided Inquiry Activity Series](#)

The diverse species of hummingbirds are the grounding phenomenon for the entire guided inquiry series. Students will consider many facets of biodiversity by asking and answering questions about hummingbirds. How many hummingbird species are there? Where do they live? Where in the world are there the most species? Where can I find rare hummingbirds? How can we protect and conserve hummingbird biodiversity?



[Logic Puzzles for Conserving Biodiversity: How Spatial Planning Can Save Our Species](#)

This spatial planning activity series asks students to apply the spatial planning principles. First, students will explore the Marine Reserve Network and by the end of this activity, students will learn what it means to make “efficient” conservation decisions and will have applied this principle to save as many marine species as possible.

Educational Resources



[Saving our Species One Chapter as a Time: Readings in Biodiversity](#)

Explore 16 titles in the world of biodiversity. These books will inspire, teach, and connect students with the many facets of our planet's biodiversity.

[Biophilia: Author Peter Christie on Our Love of Pets and Love of Nature](#)

Students explore the concept of biophilia through two resources. First, read a chapter of Peter Christie's *Unnatural Companions* and reflect with a reading guide. Next, analyze a data table from a research article entitled "Environmental impacts of food consumption by dogs and cats" by Gregory S. Okin in the journal *PLoS One*.



[Where Would We be Without our Watersheds?](#)

This Watershed Phenomenal Image Activity places Alabama's Mobile-Tensaw Delta in the important context of understanding watersheds. We all live in and depend on watersheds, for our drinking water, for agriculture, transportation, waste removal, and industry. Students need to realize that they are essential in supporting biodiversity everywhere.



Educational Resources



[Saving America's Amazon with Ben Raines](#)

Journalist, filmmaker, and environmental activist Ben Raines turns his attention to Alabama's Tensaw Delta in his gorgeously illustrated and meticulously researched book, *Saving America's Amazon: The Threats to Our Nation's Most Biodiverse River System*.



[A Conversation with Educator Ambassadors and Author Doug Tallamy](#)

In his latest book, "Nature's Best Hope," released in February 2020, Doug Tallamy expands previous arguments explaining how private land-owners can be at the forefront of biodiversity conservation while also making their property more beautiful. Read chapter one and use provided discussion questions to explore with students.



[Brooding Over Cicada Patterns](#)

The 2021 Cicada Brood X, which includes billions of cicadas (*Magicicada cassinii*, *Magicicada septendecim*, *Magicicada septendecula*), emerged in the eastern United States after 17 years underground. In this phenomenal image activity, students use maps created by the University of Connecticut, to make observations, collaborate with classmates, and explore biological connections.

Educational Resources



[Marmot Maps: Using Spy Satellites to Evaluate Ecological Impact](#)

In this phenomenal image activity, students will use Cold War spy satellite images to analyze how organisms can change and shape an agricultural landscape. *Marmota*, a genus of burrowing rodents, and their burrows that can be seen from space, are the focus for this case study.



[Saving the American Chestnut: GMOs in Nature](#)

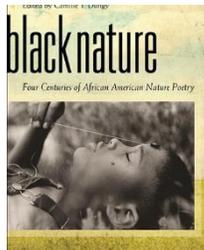
In this science literacy activity, students use close-reading strategies and text-dependent questions to analyze the article *The Nature of Nature* by Rowan Jakobson. The students use the sense-making activities to formulate an argument about the use of genetic engineering to save the American Chestnut.



[Life Animated: Animator Eric Keller Nerds Out on Insects](#)

In this activity, students watch Eric's animation, *Fire Ant Venom*, which brings to life the biomechanics and chemistry of the fire ant sting. The main goal is to show students the many ways to engage in scientific thinking and join the science community by demonstrating how powerful animation can be in revealing the complex processes of biology, evolution, and ecology.

Educational Resources



[Black American Experiences in Nature](#)

Students explore 4 authors - Camille Dungy, J. Drew Lanham, Lauret Savoy, and Deja Perkins - who write about the Black American experience in nature. We've been working on our reading list to make sure that students are aware of the diversity of voices and perspectives in biodiversity science and the conservation movement.



[Naturalist - A Graphic Adaptation Teacher's Guide](#)

Incorporate literacy in science while encouraging students to reflect on their own experiences with the natural world using excerpts from *Naturalist – A Graphic Adaptation*. This activity integrates literacy, arts and science by asking students to process scientific information in graphic and text form, and then producing a product in the form of box or panel for a graphic novel.



[Biophilic Cities](#)

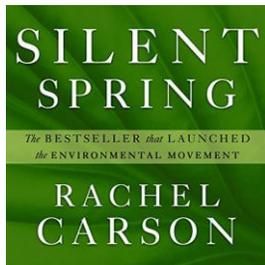
In this classroom-ready activity students will research action steps cities around the world are implementing to restore nature and biodiversity into the urban landscape. They will evaluate their own cities (or favorite cities to visit) and develop action plans to make their cities greener and more nature friendly.

Educational Resources



[Land Trusts as Places for Half-Earth Future](#)

In this phenomenal image activity for your classroom, students compare three maps and the conservation data depicted by each map. This mapping data, along with the video chats above, help students understand the role of private land for the Half-Earth mission.



[Silent Spring](#)

In the excerpt from *Silent Spring*, Chapter 8: “And no birds sing,” you and your students can take a deep dive into the qualitative and quantitative data from various research Dr. Carson used to understand how different birds were being affected by DDT and how this data was used to raise public awareness and change legislation.



[Eager: The Surprising, Secret Life of Beavers and Why They Matter](#)

Images, pulled from a paper published in *Science of the Total Environment*, are a powerful way to spark student curiosity, elicit questions, and engage them in deeper learning. Check out this classroom-ready activity based on these images.