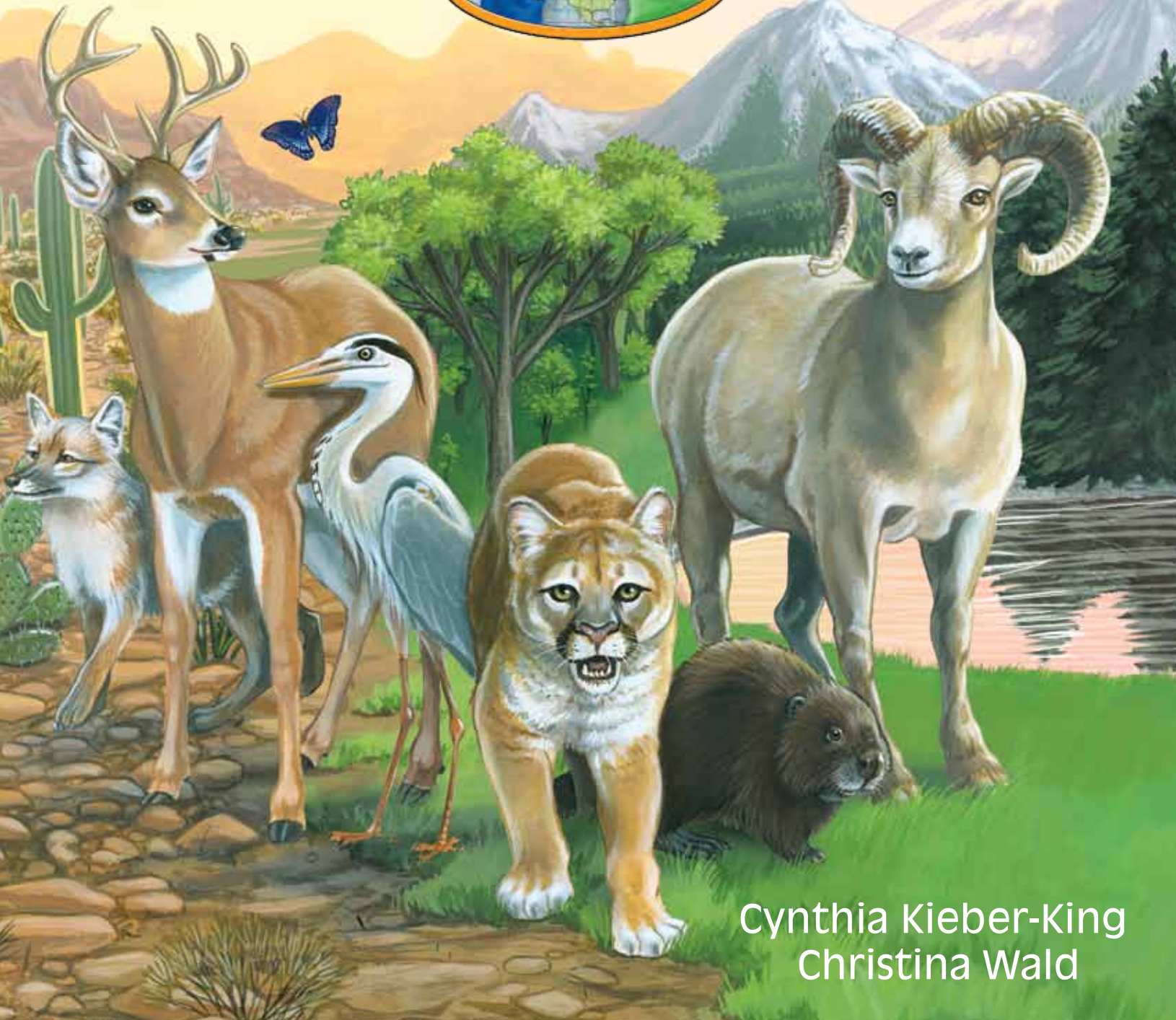


Habitat Spy



Cynthia Kieber-King
Christina Wald

front flap

back flap

Habitat Spy

Told in rhyming narrative, *Habitat Spy* invites children to “spy” the plants, invertebrates, birds, and mammals living in North American habitats: backyard, beach, bog, cave, desert, forest, meadow, mountain, ocean, plains, pond, river, and swamp. Children will have fun discovering the characteristics of each habitat as they find and identify the resident plants and animals, while learning about what living things need to survive.

It’s so much more than a picture book . . . this book is specifically designed to be both a fun-to-read story and a launch pad for discussions and learning. Whether read at home or in a classroom, we encourage adults to do the activities with the young children in their lives.

Free online resources and support for the book at www.ArbordalePublishing.com include:

- For Creative Minds as seen in the book (in English & Spanish):
 - What is in a Habitat?
 - Adaptations & Basic Needs True or False Questions
 - Food Chains and Webs: The Circle of Life
 - Odd One Out: Classification and Habitats
- Teaching Activities (to do at home or school):
 - Reading Questions
 - Language Arts
 - Science
 - Math
 - Geography
 - Coloring Pages
- Interactive Quizzes: Reading Comprehension, For Creative Minds, and Math Word Problems
- English and Spanish Audiobooks
- Related Websites
- Aligned to State Standards (searchable database)
- Accelerated Reader and Reading Counts! Quizzes
- Lexile and Fountas & Pinnell Reading Levels

eBooks with Auto-Flip, Auto-Read, and selectable English and Spanish text and audio available for purchase online.

Thanks to Eliza Russell, Director of Education at the National Wildlife Federation, for verifying the information in this book.



Cynthia Kieber-King has always been inspired by nature and science, and has degrees in zoology and biological oceanography. Before becoming a children’s author, Cynthia worked as an environmental consultant studying wetlands and conducting ecological risk assessments. She loves to travel and explore all kinds of habitats and learn about all the different plants and animals that live there. Cynthia lives and writes in central New York State with her wonderful husband and son. *Habitat Spy* is her debut picture book.

Christina Wald, in addition to illustrating *Habitat Spy*, *Little Red Bat*, and *Henry the Impatient Heron* for Arbordale, Christina has illustrated for a wide variety of toys, games, books, and magazines. From a book that featured hundreds of animals on each page (*Look, Find, and Learn: Animals of the World*) to games including the Star Wars role playing game series, every assignment covers something new and exciting. Christina enjoys the research aspect of such projects, saying that each new book is a fascinating new learning experience. She lives in Ohio with her husband and two cats. Christina enjoys movies, travelling, and reading when she’s not illustrating.



Cynthia Kieber-King



Christina Wald

Habitat Spy



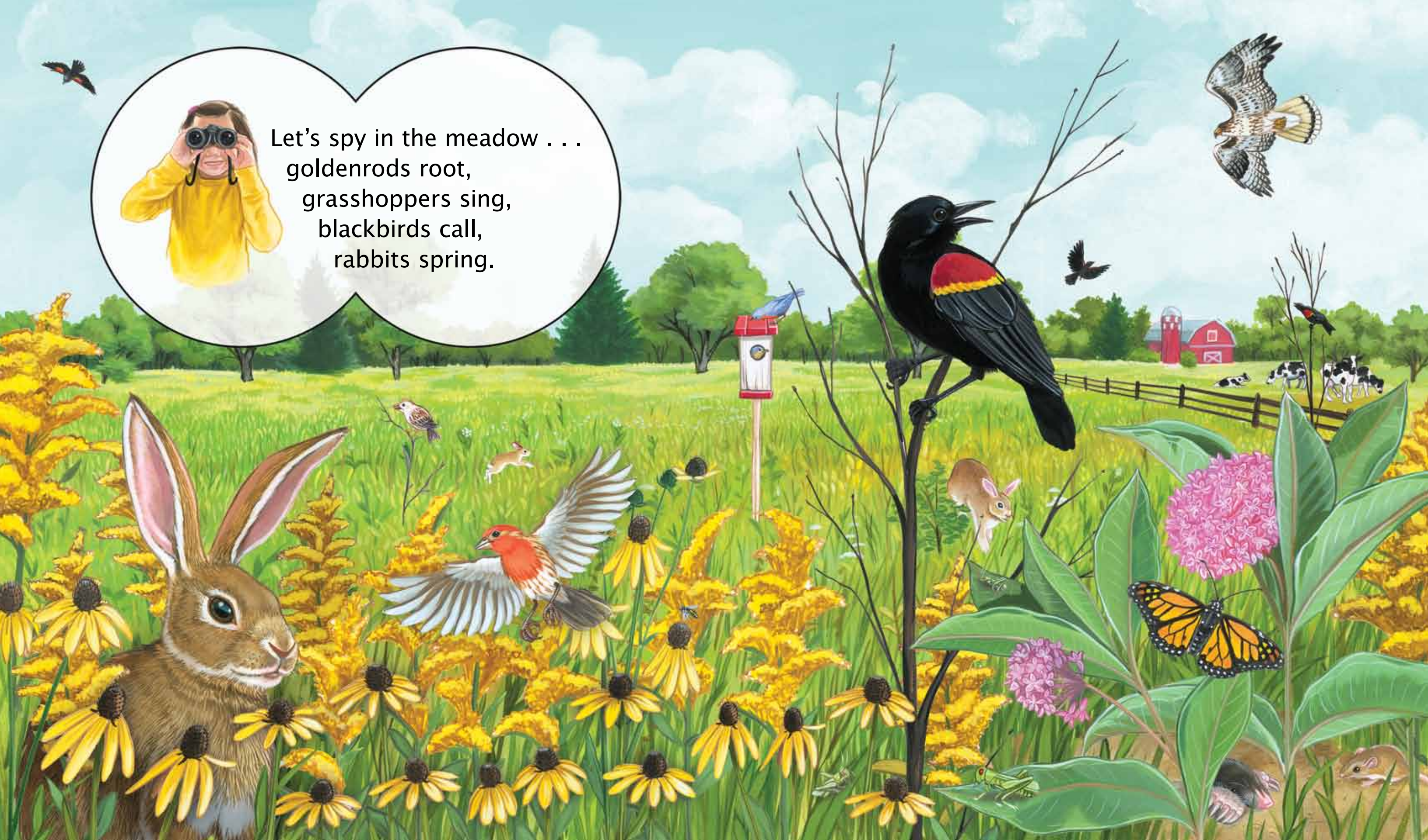
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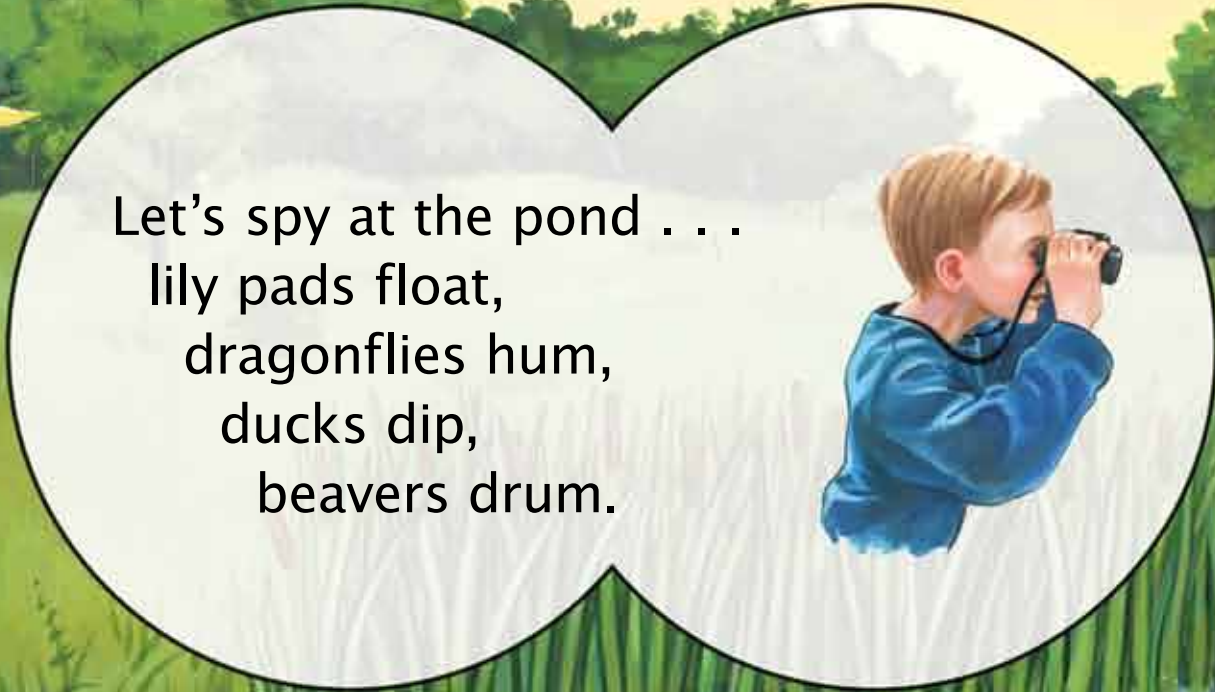
Let's spy in the backyard . . .
maples stretch,
bumblebees bump,
robins hop,
squirrels jump.





Let's spy in the meadow . . .
goldenrods root,
grasshoppers sing,
blackbirds call,
rabbits spring.



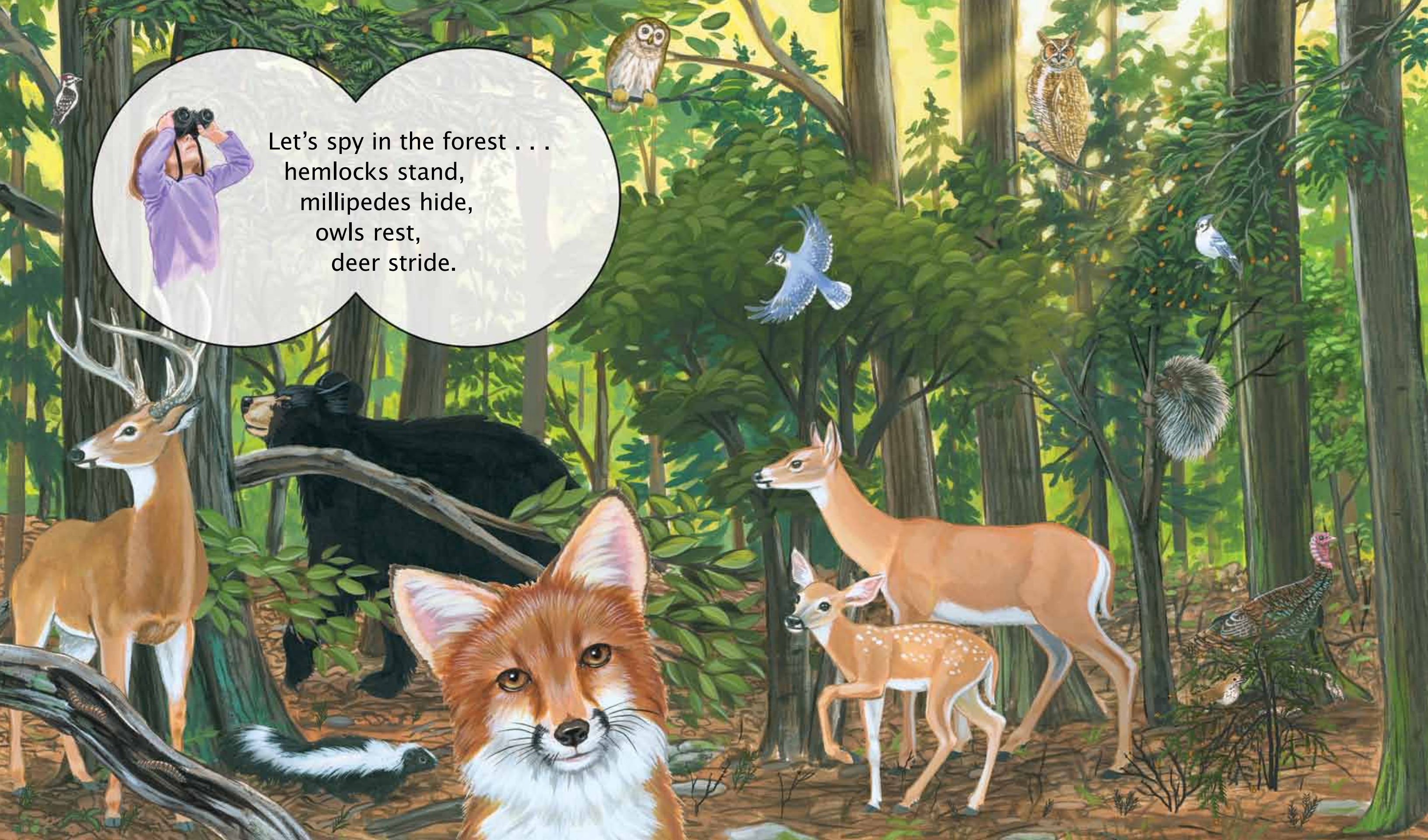


Let's spy at the pond . . .
lily pads float,
dragonflies hum,
ducks dip,
beavers drum.





Let's spy in the forest . . .
hemlocks stand,
millipedes hide,
owls rest,
deer stride.



For Creative Minds

The For Creative Minds educational section may be photocopied or printed from our website by the owner of this book for educational, non-commercial uses. Cross-curricular teaching activities, interactive quizzes, and more are available online. Go to www.ArbordalePublishing.com and click on the book's cover to explore all the links.

What is in a Habitat?

Habitats are more than just the plants and animals that live there. They are communities of plants, animals and non-living things that interact in certain locations. Look at the illustrations for the different habitats in the book and see if you can figure out some of the answers to the following habitat questions. For possible answers and a list of all of the plants and animals in each of the habitat illustrations, go to www.ArbordalePublishing.com, click on the book's cover, and then the Teaching Activities.

How many animals can you find and count in each illustration?

How are the plants and animals in some habitats alike and how are they different?

Some things might live in more than one kind of habitat. Can you find any plants or animals that are in more than one habitat?

What are some of the non-living things you see in the illustrations? What things are man-made?

What are some living and non-living things you see when you go outside?

What are some ways that a habitat might change?

Adaptations and Basic Needs: True or False Questions

Plants and animals (living things) live in habitats that meet all of their basic needs. Animals need food, water, oxygen to breathe, and a safe space for shelter and to give birth to their young. Plants need sunlight and heat (temperature), water, soil to grow, and a way for seeds to move (disperse).

Living things have body parts and behaviors (adaptations) that help them live in their habitats and meet their basic needs. Can you tell if the statements are true or false?

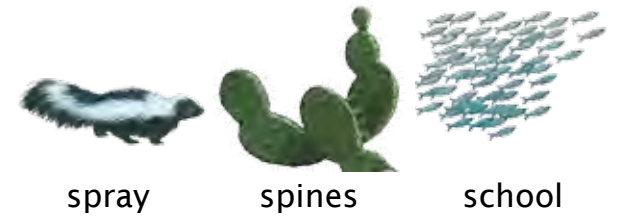
1 Animals need oxygen to breathe. Many mammals take in oxygen through their mouths or noses, fish use gills, and some marine mammals (dolphins and whales) come to the surface of the water and take oxygen in using blowholes.



2 All animals raise their young in burrows, nests, or dens.



3 Living things have body parts or behaviors to protect themselves from predators or things that might hurt them.



4 Most animals move from one place to another. Special body parts help them move in their habitat but not easily in other habitats. For example, which body parts help animals move in the air, land, or water?



5 All living things need energy to grow and have body parts to help them get food.

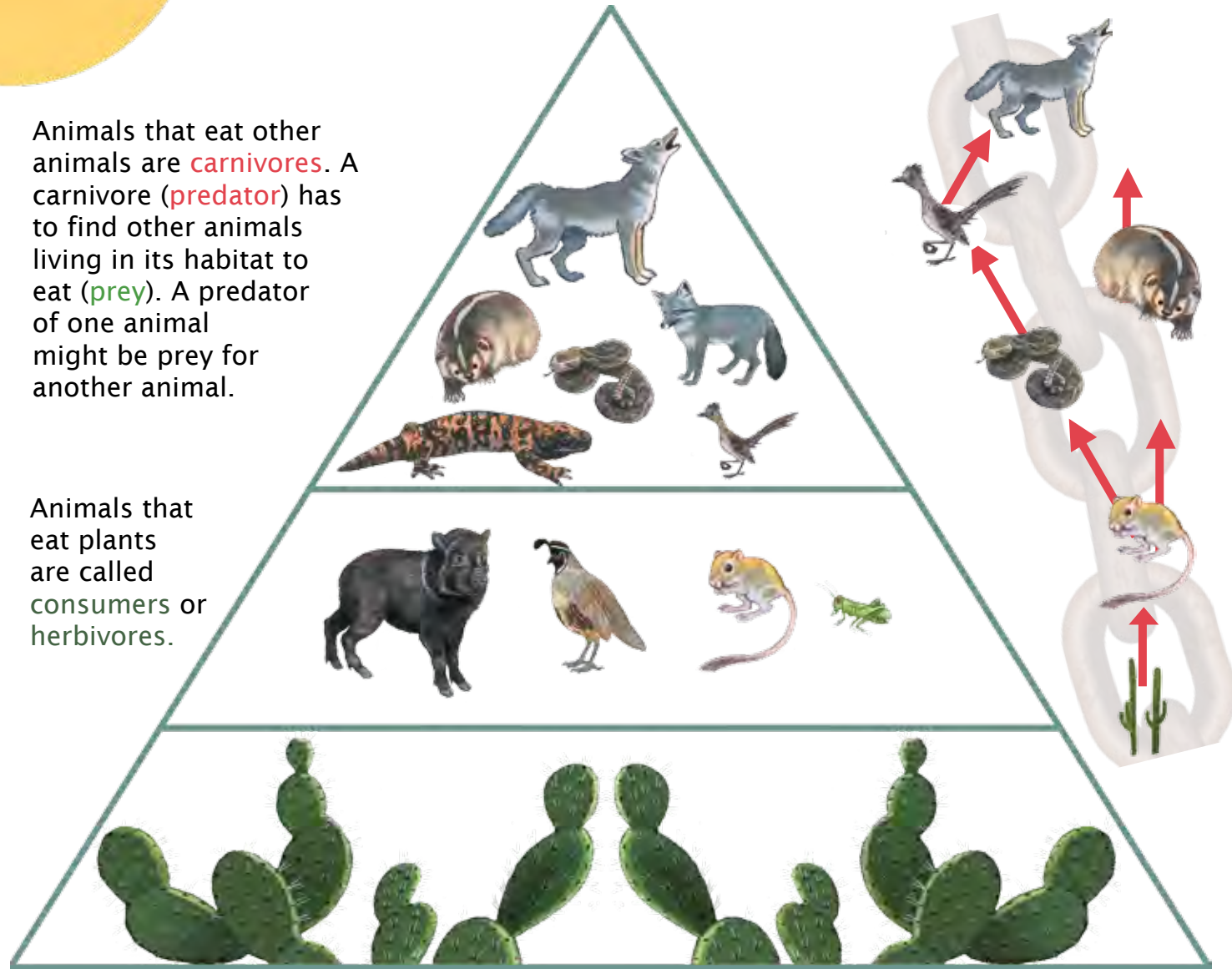


Answers: 1. True 2. False 3. True 4. True: air-wings, land-legs and feet; water-flukes (or fins) 5. True: Green plants get their energy from the sun through their leaves and water through their roots (not shown).

Food Chains and Webs: The Circle of Life

Animals that eat other animals are **carnivores**. A carnivore (**predator**) has to find other animals living in its habitat to eat (**prey**). A predator of one animal might be prey for another animal.

Animals that eat plants are called **consumers** or **herbivores**.



Plants (producers) make their own food from **sunlight (photosynthesis)** and nutrients in the soil that come from decaying things that were once alive.

Omnivores eat both plants and animals.


All of the plants and animals that are eaten by or that eat a particular animal are part of that animal's **food chain**. One habitat will have many different food chains that are linked together, called a **food web**.

Food for thought: Some animals live in more than one habitat. For example, a cougar (also called mountain lion, puma, or panther) and bighorn sheep might live in the desert and mountains.

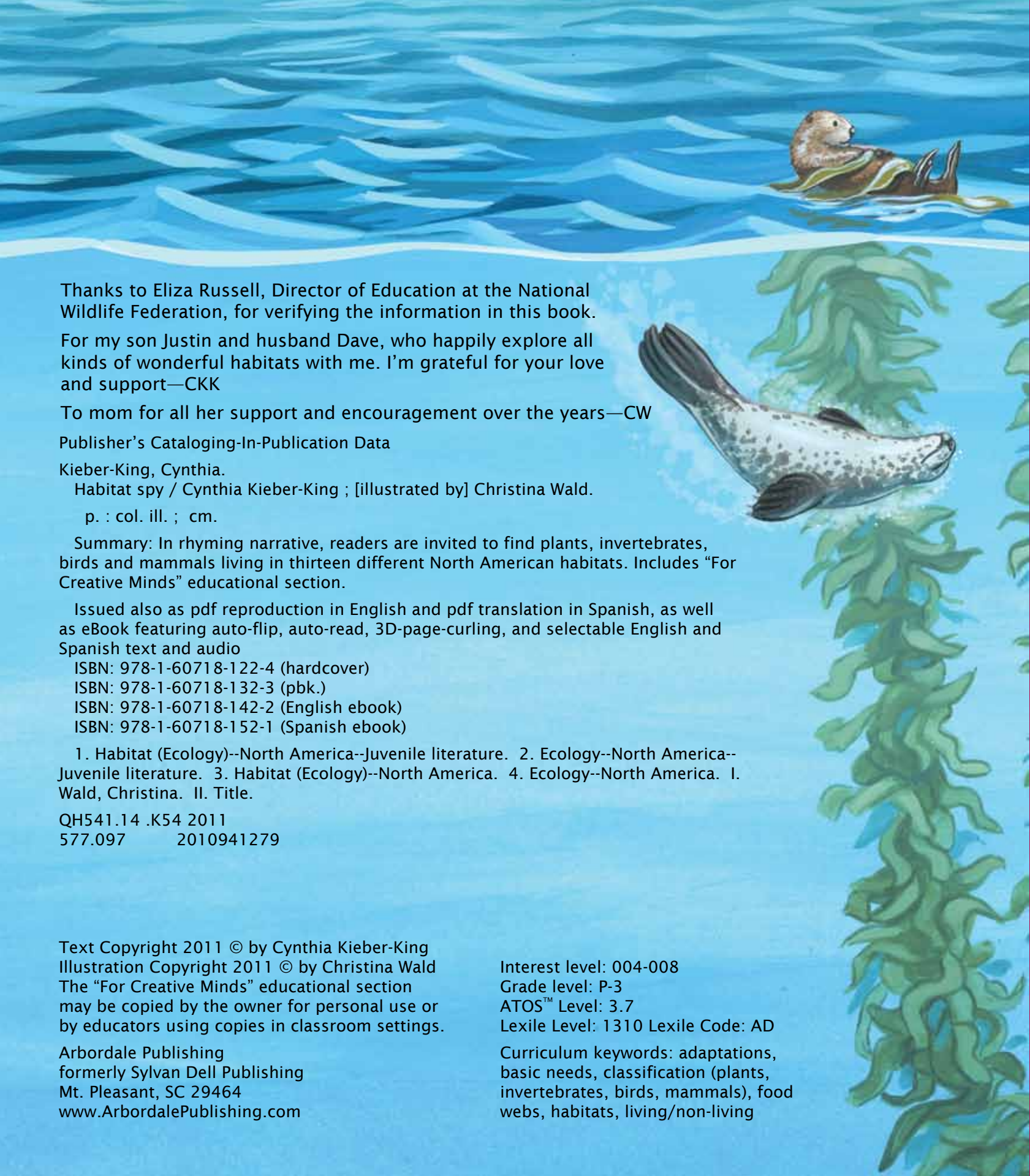
- Could you find animals that live in a swamp in the desert? Why or why not?
- Could you find animals that live in a cave in the desert? Why or why not?

Odd One Out: Classification and Habitats

Which item is different than the rest? Answers are upside down on the bottom of the page.

<p>Plants are at the bottom of food webs. Which one is not a plant?</p>  <p>grass anemones maple leaves milkweed</p>	<p>All birds have feathers and wings but not all birds fly. Which one of these is not a bird, but a flying mammal?</p>  <p>eagle duck bat robin</p>
<p>Invertebrates don't have a backbone (vertebrate) at any stage of their lives. They live in all habitats, even deep in the ocean. Which of these is not an invertebrate?</p>  <p>sea stars butterfly fish beetle</p>	<p>All mammal babies drink milk from their mothers and get their oxygen from the air. Which of these mammals lives in the ocean?</p>  <p>deer black bear whale bighorn</p>
<p>Which of these living things would not survive living in water or wetlands?</p>  <p>heron frog cactus fish</p>	<p>Which of these animals would you not find living in a forest?</p>  <p>red fox mussels rabbit owl</p>

Answers: **Plants:** Sea anemones are animals (invertebrates), not a plant. **Birds:** Bats are the only mammals that fly. **Invertebrates:** Fish have backbones (vertebrates). Some scientists worry that animal names like starfish or jellyfish are confusing because those animals are not fish. They recommend using "sea star" or "jellies" instead. Insects, beetles, and mollusks are all types of invertebrates. **Mammals:** Whales and dolphins are marine mammals. They come to the surface of the water to breathe through blowholes. **Wetlands:** The heron, frog, and fish live in or around water but the cactus can only live in dry habitats. **Forest:** Mussels need saltwater to live.



Thanks to Eliza Russell, Director of Education at the National Wildlife Federation, for verifying the information in this book.

For my son Justin and husband Dave, who happily explore all kinds of wonderful habitats with me. I'm grateful for your love and support—CKK

To mom for all her support and encouragement over the years—CW

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