We all need safe places to live and safe paths to travel. Animals, too. Meet the people who are stitching the planet's habitats back together.

### What's Included:

- Your Own Backyard BioBlitz!
- Make a Bug Hotel!
- Make Your Own Pollinator Water Station!
- Scientific Species Matching Game!

### Meet the Creators!

**Teddi Lynn Chichester** grew up in California's fertile Central Valley, land of farms, tule fog, and country western music. She spent many childhood summers hanging out with banana slugs and the world's tallest trees in Northern California's coast redwood forests, where her father worked as a State Parks Interpreter. She teaches writing and literature at the University of California, Los Angeles. *Wildlife Crossings of Hope* is her debut.

**Jamie Green** is an illustrator and maker living in Chicago. While growing up on the beaches of Florida, they nearly changed their career path to marine biology. Now, they find joy in the happy medium of illustrating the natural world. They were named the Society of Illustrator's Zankel Scholar in 2019 and graduated from Ringling College of Art and Design in 2020.





#### Wildlife Crossings of Hope by Teddi Lynn Chichester illustrated by Jamie Green

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## Your Own Backyard BioBlitz!

A BioBlitz is a high-octane scavenger hunt for native species in a particular area in a short time. You can conduct your own BioBlitz in your backyard or neighborhood.

#### What to do:

- 1. Create a site map! You can use Google Earth/Maps to capture an image of the area you'll be surveying. Print it out or draw your own map based on the image.
- 2. Gather your tools.

#### You will need:

- 1. Notebook
- 2. Smartphone with an app like iNaturalist that can help identify species
- 3. Camera or phone camera

Go outside and look for plants, insects, and small animals, making sure not to capture or handle any wildlife.

Take pictures of everything you find, or draw them in your notebook.

Use an app to identify the different species you have found. You can learn more about BioBlitzes on the NatGeo Bioblitz Guide: <u>https://education.nationalgeographic.org/resource/bioblitz/</u>



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# Make a Bug Hotel!

A bug hotel is a structure that you make and place outdoors, usually in a garden or near where insects like to live. It is ideally made using natural material and is a great way to help the bugs in your garden stay warm and safe!



- Milk carton or medium-size box
- 8-10 toilet paper rolls
- Dried moss or grass
- Sticks
- Bark
- Bamboo
- Wood chips
- Pebbles/rocks
- Leaves
- **Dried flowers**
- **Pine cones**
- Hot glue gun or white glue

#### What to do:

- 1. With the help of an adult, cut a large opening on one side of the milk carton or box.
- Insert the toilet paper rolls into the milk carton or box. 2.
- Add dried grass or moss around the sides of the rolls and in the back of the milk carton or box. 3.
- Fill each tube with some of the various materials you have gathered (sticks, bark, leaves, etc.). 4.
- 5. Fill in the sides of the milk carton or box with the remaining materials.
- Make a sign out of cardboard that says: BUG HOTEL. 6.
- 7. Place it outside and watch as various insects move in!



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## Make Your Own Pollinator Water Station!

Create an insect-safe drinking station to examine bug biology and build empathy.

#### Materials:

- Container
- Rocks or other dimensional objects
- Water
- Cuttings or fallen flowers/leaves





#### What to do:

- 1. Collect fresh or fallen flowers, leaves, and rocks in a container.
- 2. Cover almost the entire bottom of the container with rocks, leaving small amounts of space between them. The trick to a pollinator water station is to create dry "islands" surrounded by water. That way, wherever a bug lands, it has both access to water and a safe, dry spot to pause and rest while drinking.
- 3. Add water halfway up the height of the rocks (islands) so that water covers the bottom of the container while the tops of the rocks remain dry.
- 4. Decorate the water fountain by adding sprigs of flowers and leaves to grab the attention of beneficial bugs and add visual interest.
- 5. Place the water station in the shade near flowering plants and check it daily, adding fresh water as necessary.

Courtesy of kidsgardening.org





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## **Scientific Species Matching Game!**

When scientists refer to plants and animals, they use what are called their "Latin binomials," a universal system of double names, the first being the genus, or larger community of organisms, and the second a specific descriptor.



Instructions: Draw a line from the the common name of the species to its scientific name.

**Mountain lion** North American beaver Koala Western spadefoot toad Arctic tern Galápagos giant tortoise **Bengal tiger** White-lipped peccary Giant monkey frog **Tiger-striped leaf frog** Timema walking stick Pallid bat Blue sheep (bharal) California quail

Timema cristinae

Sterna paradisaea

Puma concolor

**Castor canadensis** 

Phyllomedusa tomopterna

Phyllomedusa bicolor

Spea hammondii

Antrozous pallidus

Tayassu pecari

**Phascolarctos cinereus** 

Pseudois nayaur

Callipepla californica

Chelonoidis niger

Panthera tigris tigris



Answer Key: Mountain lion = Puma concolor North American beaver = Castor canadensis Koala = Phascolarctos cinereus Western spadefoot toad = Spea hammondii Arctic tern = Sterna paradisaea Arctic tern = Sterna paradisaea Bengal tiger = Panthera tigris tigris

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White-lipped peccary = Tayassu pecari Giant monkey frog = Phyllomedusa bicolor Tiger-striped leaf frog = Phyllomedusa tomopterna Pallid bat = Antrozous pallidus Blue sheep (bharal) = Pseudois nayaur Blue sheep (bharal) = Callipepla californica



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