



Essential Question

How can learning about animals help you respect them?



Go Digital!



Respecting Animals

My name is Max and I'm a Great Horned Owl. My job here at the wildlife preserve is to help kids like Nora learn all about owls. All animals deserve respect.

- ▶ Learning about animals helps you respect them.
- ▶ The more you know about animals, the more you can do to help them.

Talk About It



Write words you have learned about respecting animals. Talk with a partner about ways you can help protect animals.



Vocabulary

Use the picture and the sentence to talk with a partner about each word.



endangered

The giant panda is an **endangered** animal and needs to be protected.

Name another endangered animal.



fascinating

Maya thought the butterflies on her shirt were **fascinating** and interesting.

Tell about something you find fascinating.



illegal

The sign says it is **illegal** to swim here because the beach is closed.

What word means the opposite of illegal?



inhabit

Many animals, including moose, **inhabit** forests.

What animals inhabit the ocean?



requirement

Food is an important **requirement** for all living things.

Name another requirement for living things.



respected

The players **respected** their football coach because he was smart and fair.

Who is respected in your school?



unaware

The Karr family is **unaware** that there is a giraffe watching them.

What word means the opposite of unaware?



wildlife

Zebras are one kind of **wildlife** that live in Africa.

What kind of wildlife lives near your home?

Your Turn

COLLABORATE



Pick three words. Write three questions for your partner to answer.

Go Digital! Use the online visual glossary

Butterflies

Big and Small

(l) Richard Ellis/Contributor/Getty Images News/Getty Images; (r, b) Don Farrall/Photographer's Choice RF/Getty Images



Essential Question

How can learning about animals help you respect them?

Read how respecting butterflies can help them survive.

Monarch butterflies like to land in the same trees when they migrate.

There are more than 725 species, or kinds, of butterflies fluttering around the United States and Canada. These **fascinating** creatures taste leaves with their feet and only see the colors red, yellow, and green. The Monarch butterfly and the Western Pygmy Blue butterfly share these same traits, but they are also different in many ways.

Size and Color

The Western Pygmy Blue butterfly is the smallest butterfly in the world. It is just about a half-inch across from wing tip to wing tip. That's smaller than a dime!

Monarch butterflies are much bigger. They measure about four inches across.

Size is not the only way Monarchs are different from Pygmy Blues. Monarch butterflies are a bright orange color with black markings. That makes them easy to see. Pygmy Blue butterflies are mostly brown and blue, and they blend in with their surroundings. Many people walk right by Pygmy Blues, **unaware** that they are even there.



This diagram shows the parts of a butterfly.

Western Pygmy Blue Butterfly

wing
antennae
head
thorax
leg
abdomen



Moving Around

Almost all butterflies migrate, or move to different areas. The Monarch's journey is the longest migration of any butterfly in the world. It spends summers in the northern United States and Canada. Then it migrates south to Mexico in early fall. Many Monarchs travel more than 3,000 miles.

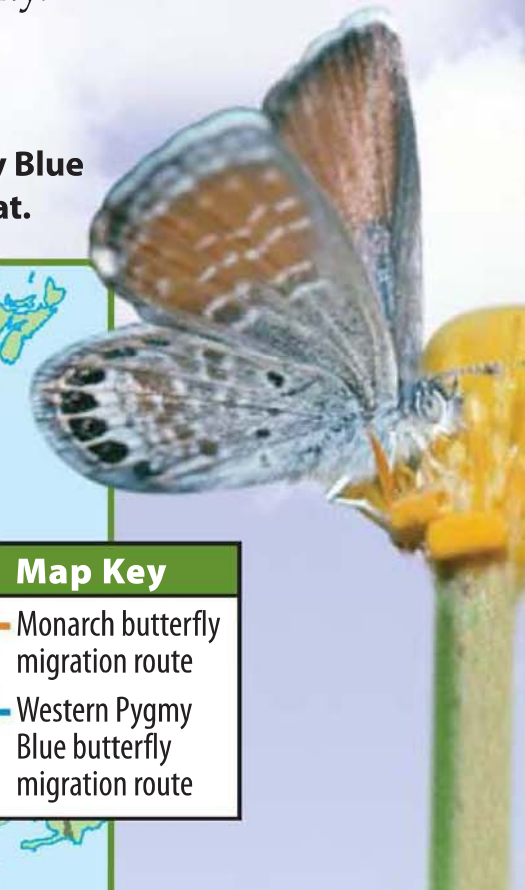
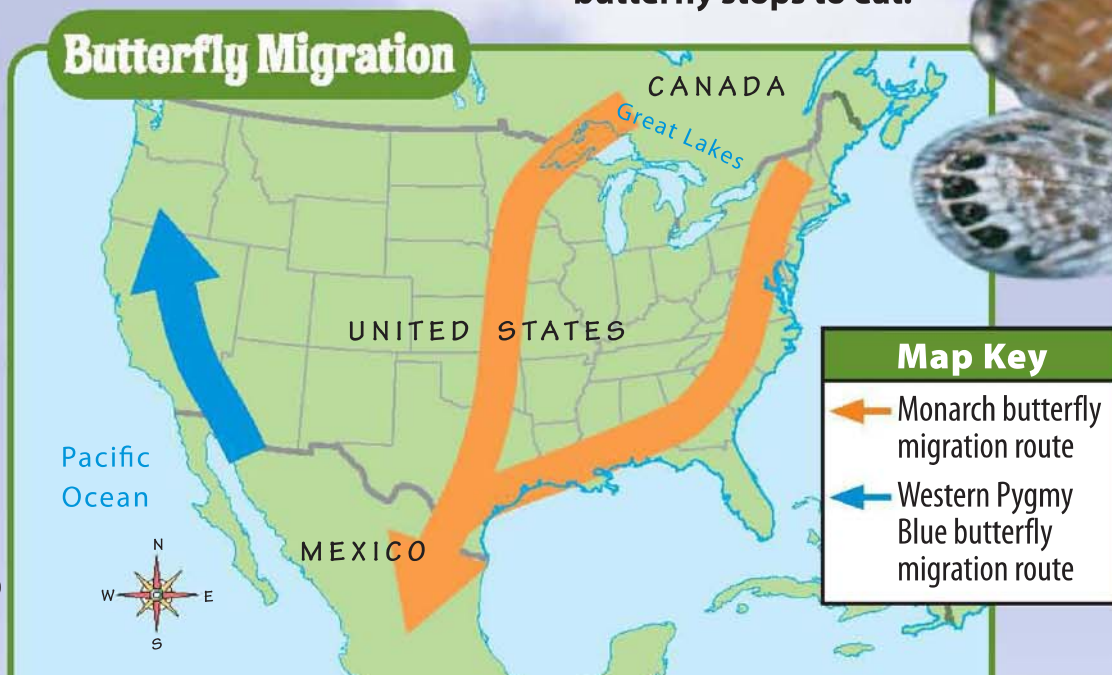
Western Pygmy Blue butterflies **inhabit** southwestern deserts and marshes from California to Texas. They migrate short distances north to Oregon, and also to Arkansas, and Nebraska.

Both Monarchs and Blue Pygmies migrate when the weather gets chilly. Butterflies are cold-blooded insects. They are hot when the weather is hot and cold when the weather is cold. As a result, both butterflies migrate to stay warm. They also journey north or south to find food.

Finding Food

The Western Pygmy Blue drinks the nectar of many kinds of flowers. It finds the sweet, thick liquid easily, so its population has steadily grown. However, Monarch butterflies are not so lucky.

This Western Pygmy Blue butterfly stops to eat.



Just like the Pygmy Blue, Monarch butterflies sip nectar from flowers. But the Monarch butterfly has one main food **requirement** — the milkweed. Monarch butterflies must find this plant along their migration route. But what happens if there are no milkweed leaves?

When people build houses and roads, there are fewer places for Monarchs to find milkweed. If the Monarch cannot find food, its population will decrease. The Western Pygmy Blue and Monarch butterflies are not **endangered**, or at risk for becoming extinct now, but biologists are worried. Many other butterflies are endangered because people destroy their habitats.

Help Butterflies

Like all **wildlife**, Monarch and Pygmy Blue butterflies should be **respected**. People need to preserve butterfly habitats. To help, they can work to change laws, plant milkweed, and make it **illegal** to destroy animal habitats.

Learning about butterflies and what they need to survive is important. That way there will be plenty of Western Pygmy Blue and Monarch butterflies for future generations to enjoy.

Monarch butterflies feed on milkweed.



Make Connections



How can people learn to respect butterflies?

ESSENTIAL QUESTION

Talk about some butterflies you've seen. How are they alike and different? **TEXT TO SELF**