

# Monarch Butterfly Unit

Adaptable for Kindergarten-1st Grade



# Table of Contents

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- [Lesson 1](#): Basic Needs and Endangered Animals
- [Lesson 2](#): Monarch Butterfly Life Cycle
- [Lesson 3](#): Monarch Butterfly Migration
- [Lesson 4](#): We need Monarchs!
- [Lesson 5](#): Monarch Butterfly Conservation

# Lesson 1:

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## Basic Needs and Endangered Animals

**Learning Goals:** I can identify the basic needs of animals.  
I can explain the primary reasons that animals become threatened or endangered.



# Part I: Basic Needs

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**What do animals need to  
survive?**



# Do animals need these things:



yes

no



# Check your answers!

yes

no

water



air



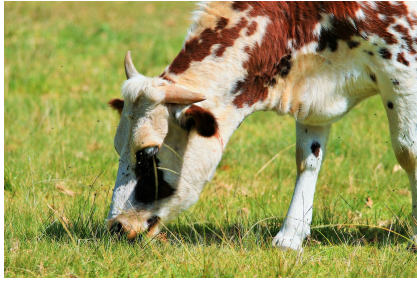
shelter



# Animals need certain things in their habitat to survive:

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## 1. Food



## 2. Water



## 3. Shelter



## 4. Air



## 5. Space



- Move around
- Find food
- Have babies
- Play

# Now Let's Practice!

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# Animal Dance Break!

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# Part II: Endangered Animals

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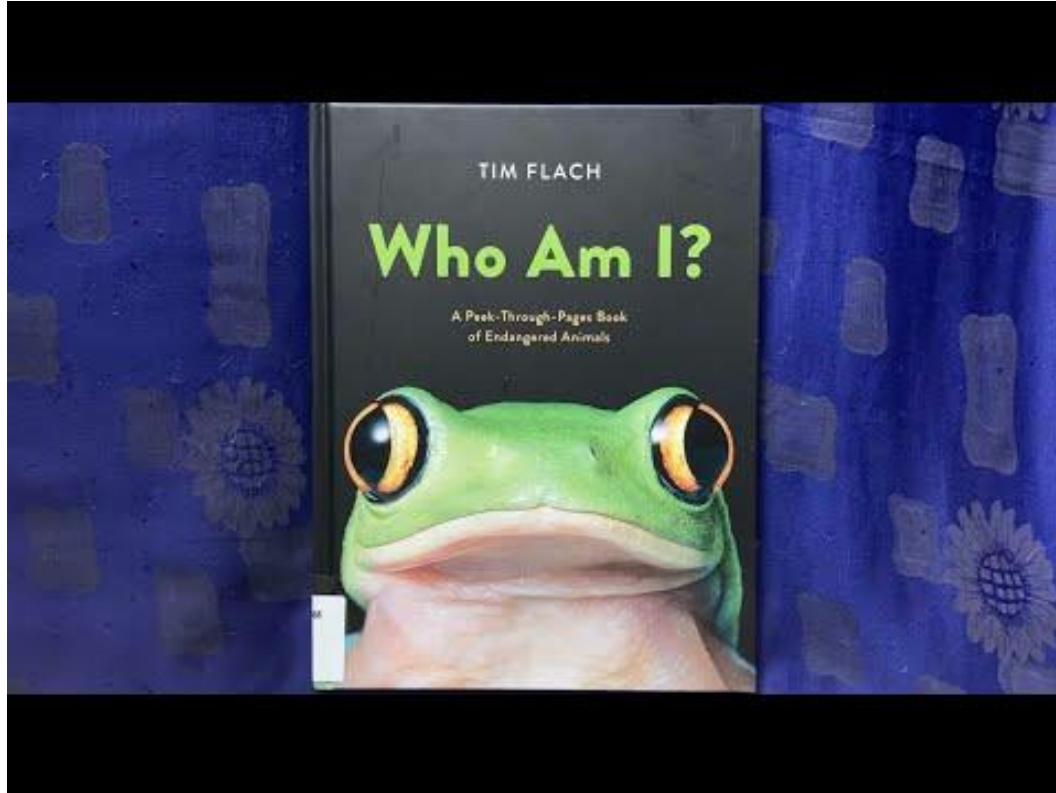
We know what animals need.

**What happens if they don't get what they need?**



# Who Am I? by Tom Flach

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# Did you know?

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Over 40,000 species of animals around the world are threatened with extinction!



# What does “endangered” mean?

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any type of plant or animal that is in danger of disappearing forever (**extinct**)

Take a look at  
some  
endangered  
species that live  
at the OKC Zoo!

Asian Elephant  
📷 Jennifer D.



African Spurred Tortoise  
📷 Andrea J.

# Endangered Animals (OKC Zoo)

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African Painted Dog



Black Rhino  
📷 Lena K



Sumatran Tiger  
📷 Dr. Jenn



Western Lowland Gorillas  
📷 Jennifer D.



Whooping Crane



Red Panda



# Endangered Animals (OKC Zoo)

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Addra Gazelle  
© Andrea J.



Radiated Tortoise  
© Emma W.



Chimpanzee  
© Jennifer D.

# Endangered Animals (OKC Zoo)

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Guatemalan Beaded Lizard  
📷 Rae K.



Okapi  
📷 Jennifer D.



Orangutan  
📷 Andrea J.



# Endangered Animals (OKC Zoo)

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In July 2022, the International Union for the Conservation of Nature ([IUCN](#)), declare the migratory monarch butterfly endangered.

The OKC Zoo is working with partners to help them and you can help too!



Monarch Butterfly

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## Lesson 2:

# Monarch Butterfly Life Cycle

**Learning Goal:** I can identify and put in order the stages of the monarch butterfly life cycle.

# Introduction

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1. What do you already know about butterflies?
2. What do you know about a butterfly's life cycle?
3. Do you know the link between a caterpillar and a butterfly?

We will focus on a special group of butterflies called **monarch butterflies**.

# Introduction

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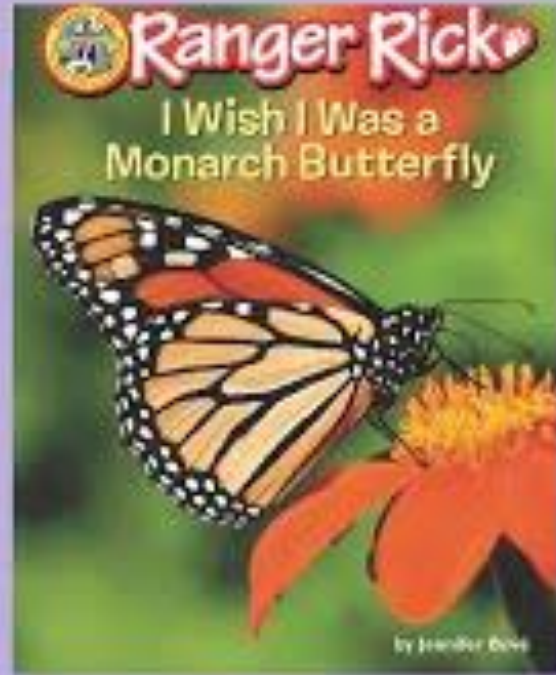
What do you notice about the way the monarch butterfly looks?





# *I Wish I was a Monarch Butterfly* by Jennifer Bové

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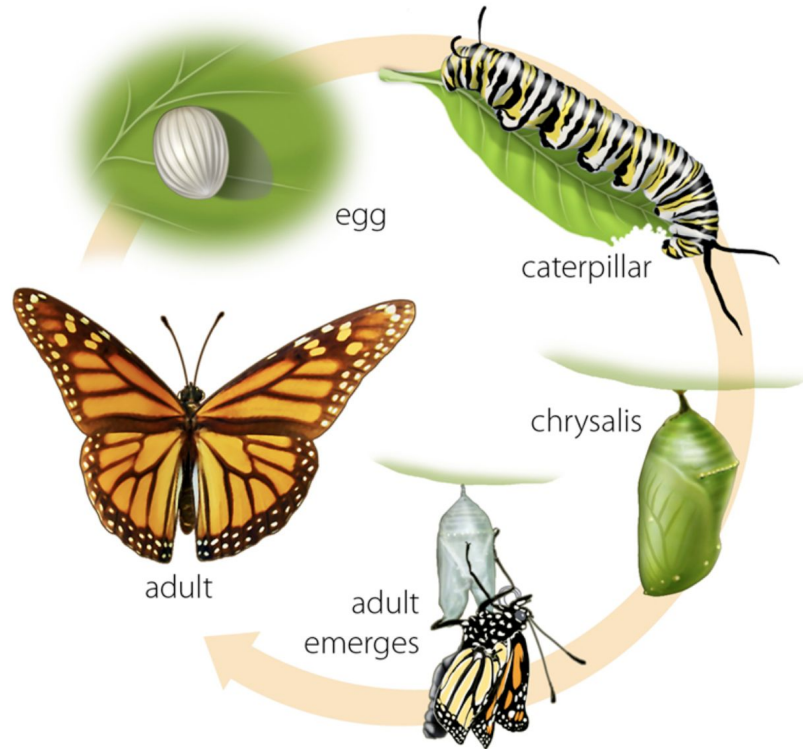
# The Amazing Monarch Life Cycle

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# Monarch Butterfly Life Cycle

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# Movement Break

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# Life Cycle- Egg

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- Monarch butterflies lay their eggs on the undersides of **milkweed** leaves.
- They will lay one egg per leaf but will lay between 300-500 in its lifetime.





# Life Cycle- Caterpillar

- The egg will hatch into a **caterpillar**.
- The caterpillar has yellow, black, and white stripes.
- Notice the two sets tentacles at both ends.
- The caterpillar eats milkweed nonstop for two weeks.



# Life Cycle- Chrysalis

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- The caterpillar changes into a **chrysalis**.
- The monarch stays in the chrysalis for 9-14 days.
- The chrysalis will darken when it's time to become a butterfly.

# Life Cycle- Adult

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- The monarch's wings are wrinkled when it comes out of the chrysalis and take time to straighten out.
- The new butterfly will hang for several hours before flying off.





# Time-lapse of life cycle

Take a look at the complete life cycle of a Monarch butterfly.



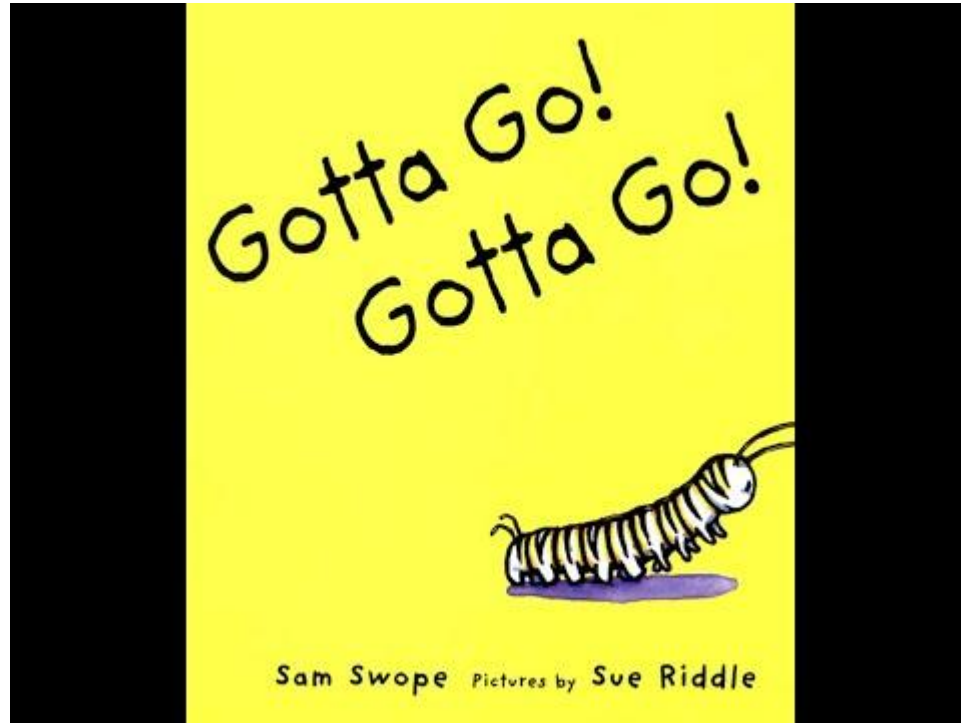
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## Lesson 3:

# Migration of the Monarch Butterfly

**Learning Goal:** I can describe the migration patterns of the monarch butterfly.

# Gotta Go! Gotta Go! by Sam Swope



# *Hurry and the Monarch* by Antoine Ó Flatharta



# Important things to know...

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- Monarch butterflies fly south for winter to find warmer weather. This is called migration.
- They can fly almost 100 miles in one day and like to travel together.
- Monarchs will cluster together, sometimes thousands, in one tree.







Monarchs roost  
together to stay  
warm.



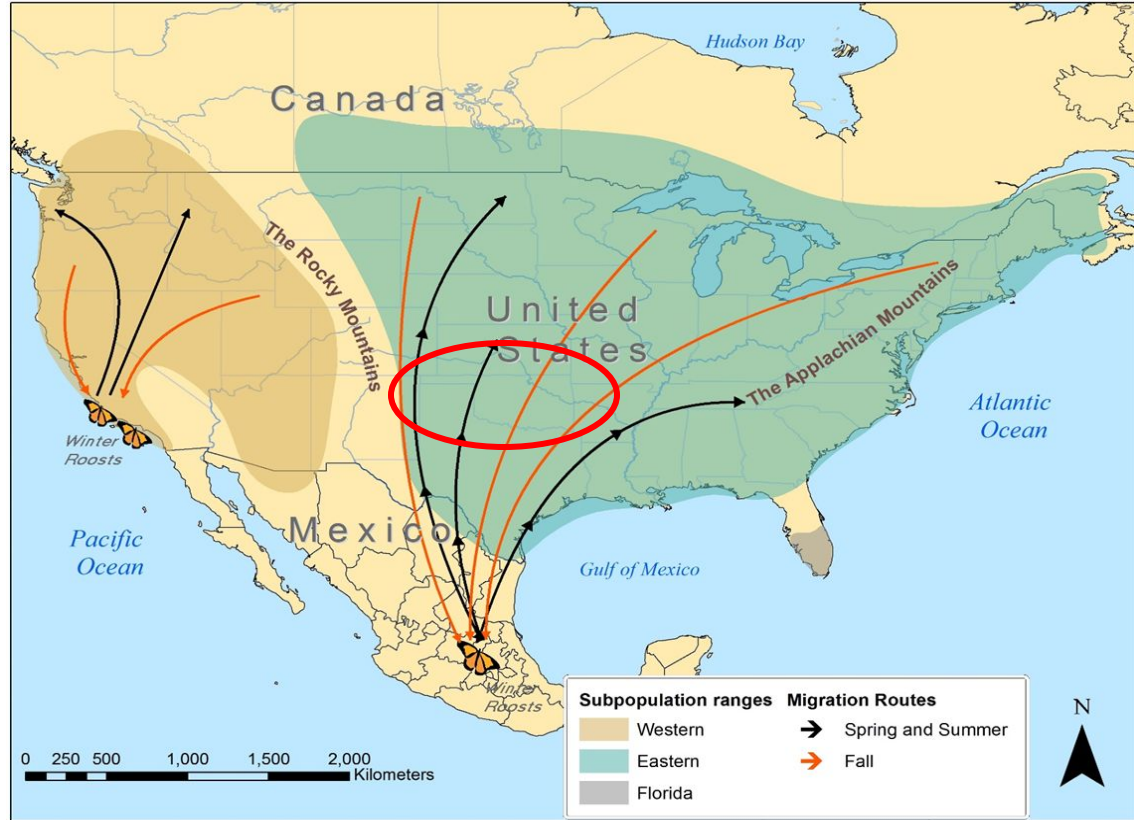
# Movement Break

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# Migration Map

Notice when butterflies migrate, they travel right through Oklahoma!



Graphic provided by Dr. Geest (OKC Zoo)



# Website resource

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Click below to go to an interactive map showing the migration patterns of the Monarch butterfly:

[Interactive Migration Map](#)

# News 9 Story

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# Tagging monarch butterflies in Oklahoma

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MONARCH BUTTERFLIES FROM OKC ZOO COMPLETE  
1,295 MILES JOURNEY TO WINTER HOME IN MEXICO!



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## Lesson 4:

# We need Monarchs!

**Learning Goal:** I can identify ways monarch butterflies help our world.



# Flowers and Their Pollinators

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# Did you know...

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Monarch butterflies are **pollinators**.

This means when they stop on a flower to sip on the nectar, the pollen sticks to their bodies. Then the butterfly moves to another flower. The pollen brushes off onto the new flower. This helps flowers make seeds, which grows in new plants. Bees are pollinators, also!



Pictures provided by OKC Zoo

Busy  
spreading  
pollen!



📷 Emily G.

# Movement Break

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# Did you know...

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Monarch butterflies help other animals live.

They are an important part of the **food chain** for many animals. That means animals like birds, other insects, and small animals eat them to survive.

# Did you know...

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Monarchs are also a symbol of **inspiration** for some partly because of their remarkable migration journey. They can symbolize endurance, change, hope, and life.





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## Lesson 5:

# Monarch Conservation

**Learning Goal:** I can identify and sequence the stages of the monarch butterfly life cycle.



# What's happening?

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For the past few decades, people have noticed that the number of Monarch butterflies has decreased (gone down).

Why do you think monarch butterflies are disappearing?

# Why are they disappearing?

- **Loss of habitat**
  - Trees in Mexico are being cut down.
  - Habitats are being destroyed in America.
- **Loss of food resources**
  - Milkweed and nectar plants are disappearing because of development and chemical use.
- **Climate change**
  - Extreme weather causes the Monarch's migration to get off track.

# What is conservation?

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**Conservation** means to protect our environment and the wildlife that lives in it.

We can work together to conserve the population of the Monarch butterfly.

What can we do to help save them?

# Movement Break

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# Juniper's Butterfly Garden by Autumn Heigle



# OKC Zoo Pollinator Plants

One way we help is to make sure they have enough to eat by planting pollinator plants. The OKC Zoo has planted many of these special plants across their grounds. Take a look at these pictures taken at the zoo!





# Pollinator Gardens in Oklahoma

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Nicoma  
Park  
Elementary

Take a look at some pollinator gardens across Oklahoma!



Davis Elementary



# Pollinator Gardens in Oklahoma

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Yukon, OK



Special Care, OKC

# Okies for Monarchs

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The OKC Zoo helped found and is involved with [Okies for Monarchs](#). This organization is dedicated to helping Monarch butterflies live for a long time.





# OKC Living Classroom Grant

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The Oklahoma City Zoo is helping schools plant their own gardens.  
Check out the grant process and apply today!

[OKC Living Classroom Grant Program](#)



# Credits

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Title Slide Photo provided by the OKC Zoo taken by Jennifer D.

## Lesson 1-

- Pixabay-T-Chart Pictures
- Teaching Independent Learners- Basic Needs practice video
- Jack Hartmann- Animals in Action
- EDU Kid Space- *Who Am I?* By Tim Flach
- Endangered species pictures- OKC Zoo

## Lesson 2-

- Ms. Lindsey's Book Nook- *I Wish I was a Monarch Butterfly* by Jennifer Bové
- Glogpedia- Monarch life cycle graphic
- Science Up!- Monarch life cycle video
- Patty Shukla Kids Music- butterfly stages video
- Pic4Learning and Unsplash- Life cycle pictures
- Joshua Russo- time-lapse life cycle

# Credits

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## Lesson 3-

- Detroit Zoo- *Hurry and the Monarch* by Antoine Ó Flatharte read aloud
- Children's Storytime- *Gotta Go! Gotta Go!* By Sam Swope read aloud
- Dance 'n Beats- dance video
- Dr. Emily Geest (OKC Zoo)- migration map graphic
- Rawpixel- roosting pictures
- News 9- Monarch migration package
- Cgee-hamline.org- interactive migration map

## Lesson 4-

- SciShow Kids- Pollinators! video
- Danny Go!- animal dance video
- OKC Zoo- "Busy Spreading Pollen" pictures



# Credits

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## Lesson 5-

- Jack Hartmann- Animal Dance & Freeze
- Okies for Monarchs- pollinator garden pictures and video
- OKC Zoo- *Juniper's Butterfly Garden* by Autumn Heigle
- OKC Zoo- Grant program link