



girl scouts 
of western ohio

The Zoo and You!

The Cincinnati Zoo provides great opportunities for Girl Scouts to complete self-guided activities that will help girls earn badges! This document will help list out the steps of the badge, which steps can be completed, what supplies are needed, and where to complete the steps while at the Zoo.



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In Partnership With:



Girl Scout Daisy Badges at the Zoo

Badge name: Animal Observer

Steps to complete badge:

1. Be an animal observer – Explore where animals live and the sounds they make. (Anywhere)
2. Play an animal observation game – Play camouflage hide and seek. (Anywhere)
3. Focus on one animal – Pick an animal and share fun animal facts. (Anywhere)

Steps that can be completed at zoo: All!

Supplies needed to complete steps: None.



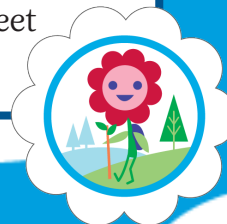
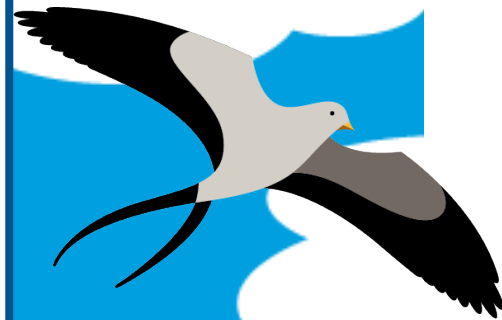
Badge name: Eco Learner

Steps to complete badge:

1. Be prepared to protect nature before you go outdoors – Play a Wildlife Game (Anywhere)
2. Keep living things safe when you walk in nature
3. Learn how to protect nature from trash – Play “What Does Not Belong” by looking around the Zoo and spotting trash not in a trash bin. (Anywhere)

Steps that can be completed at zoo: 1 & 3

Supplies needed to complete steps: Wildlife Game Sheet



Badge name: Daisy Design with Nature

Steps to complete badge:

1. Count with birds – Go birdwatching and count how many birds you find! (Birds of the World or attend Wings of Wonder Show)
2. Identify parts of nature – Explore and identify animal tracks. (Anywhere)
3. Make a map

Steps that can be completed at zoo: 1 & 2

Supplies needed to complete steps: None.





Girl Scout Daisy Badges at the Zoo



Badge name: Daisy Numbers in Nature

Steps to complete badge:

1. Search for shadows – See how shadows change as the time changes. (Anywhere)
2. Sort natural objects
3. Make your own unit of measurement – Measure an object with your body. Example: Foot, Leg, Arm, Hand, etc. (Anywhere)

Steps that can be completed at zoo: 1 & 3

Supplies needed to complete steps: None



Badge name: Daisy Shapes in Nature

Steps to complete badge:

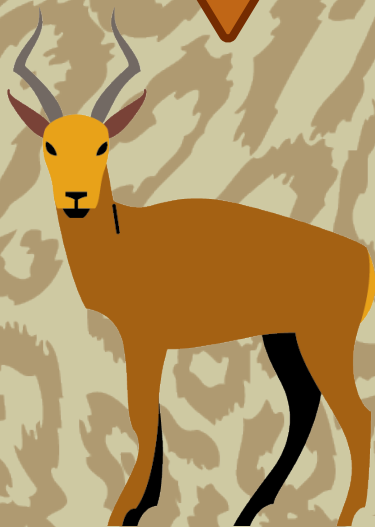
1. Search for shapes in nature – Go on a Shape Outdoor Scavenger Hunt (Anywhere)
2. Find and make patterns – Look for patterns on different animals (Anywhere)
3. Create art inspired by nature

Steps that can be completed at zoo: 1 & 2

Supplies needed to complete steps: Shape Tally Chart



**Girl Scout
Brownie
Badges
at the
Zoo**



Badge name: Bugs

Steps to complete badge:

1. Talk to a Bug Specialist (World of the Insects)
2. Try a bug craft
3. See bugs in action – Watch 3 different bugs (World of the Insects)
4. Explore bug homes – Observe 3 different types of bug homes. What differences did you find? (World of the Insects)
5. Take a bug field trip – Visit a Zoo with a bug collection (World of the Insects)

Steps that can be completed at zoo: 1, 3, 4, & 5

Supplies needed to complete steps: None.



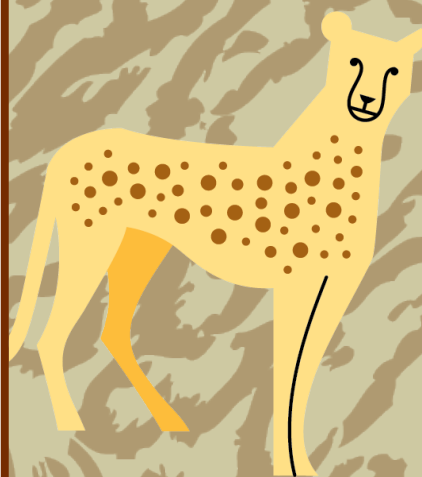
Badge name: Eco Friend

Steps to complete badge:

1. Think of ways to help the outdoors
2. Observe outdoor spaces – Take a closer look at a flower, plant, rock, pinecone, or other natural object and see if anything lives on it! (Anywhere)
3. Build a safe campfire
4. Take care of wildlife
5. Practice being kind – While at the Zoo, leave a place better than you found it. (Anywhere)

Steps that can be completed at zoo: 2 & 5

Supplies needed to complete steps: None.



Badge name: Brownie Design with Nature

Steps to complete badge:

1. Calculate the age of a natural object – Calculate the age of a snake. (Reptile House)
2. Explore the shape of beehives – Calculate how much honey a beehive might hold (World of the Insects)
3. Measure and build a bird feeder
4. Use ratios to make bird food
5. Graph data about birds – Go bird watching and graph birds you see (Anywhere or Birds of the World)

Steps that can be completed at zoo: 1, 2, & 5

Supplies needed to complete steps: Calculate the Age of a Snake Sheet & My Bird Data



**Girl Scout
Brownie
Badges
at the
Zoo**



Badge Name: Brownie Shapes with Nature

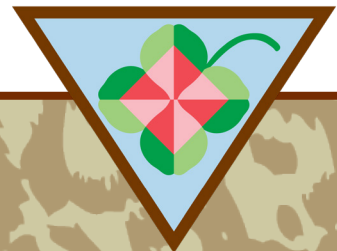
Steps to complete Badge:

1. Track natural objects – Go on a scavenger hunt to find objects in 4 different categories, for example: animals, plants, bugs, and rocks. (Anywhere)
2. Graph natural objects
3. Make a spiderweb with symmetry
4. Explore tessellations – A tessellation is when shapes fit together. The pattern repeats without any gaps, never overlaps, and is the same shape over and over. Can you find any at the zoo? (Anywhere)
5. Collect data about birds – Go bird watching and create a date table. (Anywhere or Birds of the World)

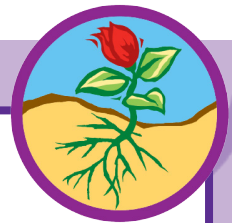
Steps that can be completed at Zoo: 1, 4, & 5

Supplies needed to complete steps:

How to Collect Data About Birds Sheet



Girl Scout Junior Badges at the Zoo



Badge name: Flowers

Steps to complete badge:

1. Uncover the science of one flower – Try to find and name 5 different flowers. (Floral Display Garden)
2. Look under the petals – Stop and smell 3 different flowers. Which did you like the best? Why? (Floral Display Garden)
3. Find out how flowers help people - (Native Pollinators by Insect World)
4. Have fun with flowers
5. Send a message in flower code

Steps that can be completed at zoo: 1, 2, & 3

Supplies needed to complete steps: None.

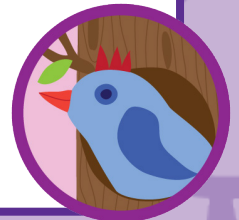
Badge name: Animal Habitats

Steps to complete badge:

1. Find out about wild animals – Observe a farm animal for at least 15 minutes and reflect on how it behaves. (Spauldings Children's Zoo)
2. Investigate an animal habitat – Visit a Zoo and learn about 3 different habitats while there. (Anywhere)
3. Create an animal house – Check out baby animal habitats and learn how the animal parents care for their babies and make “homes” for them. (Anywhere)
4. Explore endangered habitats – Learn about the Amazon RainForest and why it's endangered and how people can help! (Africa or Gorilla World)
5. Help protect animal habitats

Steps that can be completed at zoo: 1, 2, 3, & 4

Supplies needed to complete steps: None.



Badge name: Gardener

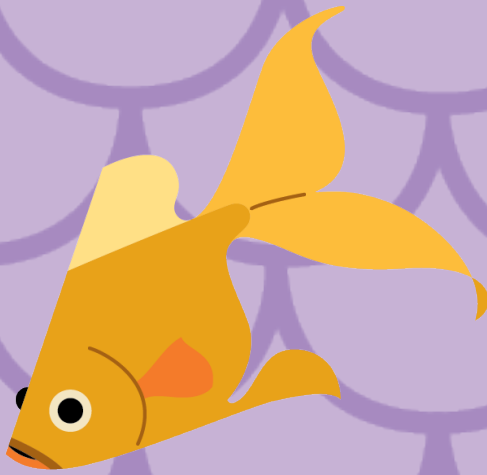
Steps to complete badge:

1. Visit a garden – Visit an indoor or outdoor garden. (Any garden/floral display)
2. Explore garden design – Visit 3 different types of gardens. Which did you like best? (Visit any three gardens/floral displays)
3. Learn how to choose garden plants
4. Experiment with seeds
5. Grow your own garden

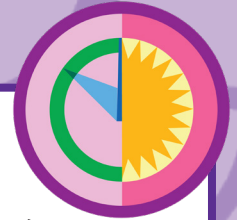
Steps that can be completed at zoo: 1 & 2

Supplies needed to complete steps: None.





Girl Scout Junior Badges at the Zoo



Badge name: Junior Numbers in Nature

Steps to complete badge:

1. Tell time with nature – Use the sun and your hands to tell time. (Anywhere)
2. Track the weather – Track nature's clues for upcoming weather changes. (Anywhere)
3. Explore the circumference of trees
4. Search for shadows – Go on a shadow adventure and see how many different shadows you can find! (Anywhere)
5. Find the area and perimeter of plants – Find the perimeter and area of leaves. (Anywhere)

Steps that can be completed at zoo: 1, 2, 4, & 5

Supplies needed to complete steps: Find the Area and Perimeter of Plants Sheet

Badge name: Junior Shapes in Nature

Steps to complete badge:

1. Identify symmetry in nature – Look around for objects in nature that are symmetrical. (Anywhere)
2. Explore bilateral symmetry in nature – Look at different types of butterflies. Can you find their lines of symmetry? (Butterfly Garden or World of Insects)
3. Create nature-inspired art with circular symmetry
4. Find fractals in nature – Look for fractals in nature. Did you see the same patterns or shapes in different objects? (Any of the gardens/floral displays)
5. Search for the Fibonacci sequence – Look for the Fibonacci sequence in animals or flowers! (Anywhere)

Steps that can be completed at zoo: 1 & 2

Supplies needed to complete steps: None.



Girl Scout Cadette Badges at the Zoo



Badge name: Animal Helpers

Steps to complete badge:

1. Explore the connection between humans and animals – Find out how views of animals have changed over the centuries. (Africa or Passenger Pigeon Memorial)
2. Find out how animals help keep people safe – Talk to someone that works with animals. Which animals are best for keeping people safe? How are they trained? (Must schedule a tour prior to visit.) Know how animals help people emotionally
3. Check out how animals help people with disabilities
4. Look at how animals might help us in the future

Steps that can be completed at zoo: 1 & 2

Supplies needed to complete steps: None.

Schedule a tour prior to your visit.

Visit: cincinnatizoo.org/plan-your-adventure/behind-the-scenes-experiences/



Badge name: Night Owl

Steps to complete Badge:

1. Take a field trip to explore the night
2. Tour your world after dark
3. Meet people who work night hours
4. Explore nature at night
5. Host an Extreme Nighttime Party

Steps that can be completed at zoo: All!

Supplies needed to complete steps: None.

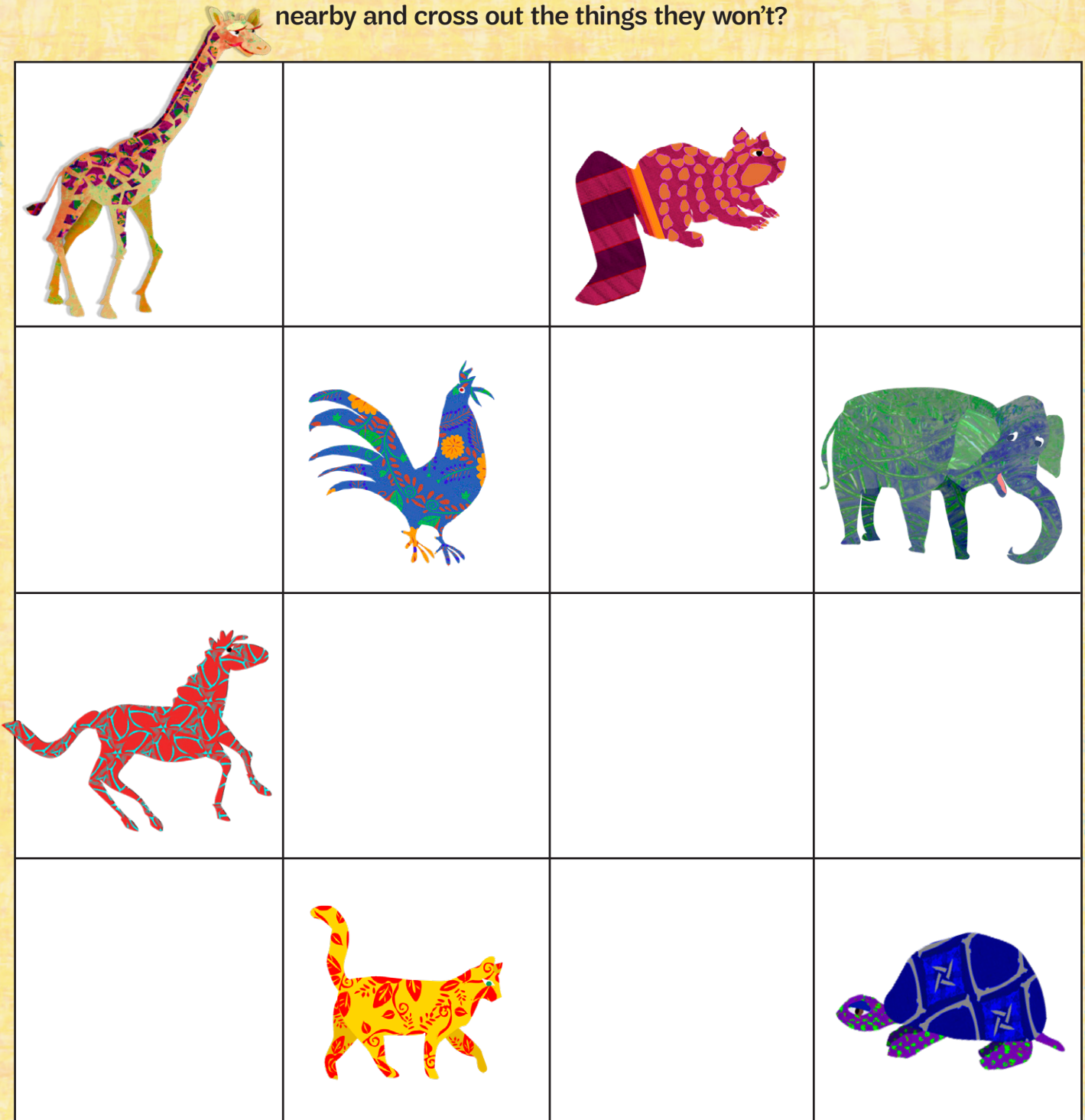
Schedule an Overnight Adventure to complete this badge.

Visit: cincinnatizoo.org/education/overnightadventures/



Play a Wildlife Game

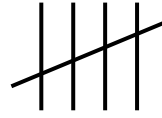
Fill in the board by drawing pictures of wildlife in the empty squares. Draw some living things you might see near your home and some that live far away. Then have a family member or friend look at the board. Can they circle the things they might see nearby and cross out the things they won't?








Shapes Tally Chart

A tally mark is a line to help you count.

Five tally marks look like this:



Shape	Draw what you saw	Tally what you saw
 Circle		
 Oval		
 Triangle		
 Square		
 Rectangle		

When you're done, count up the tally marks: _____

Which shape did you find the most of? _____

Which shape did you find the fewest of? _____

Did you find any other shapes? _____

Calculate the age of a snake. Different kinds of snakes grow at different speeds. The longest snake in the world is the reticulated python. It can be over 20 feet or 240 inches long! The shortest is the Barbados threadsnake. It can be only 4 inches long. You can predict how old a snake is by its length (how long it is) and weight (how heavy it is). Look up how long and heavy each kind of snake below is when first hatched and as an adult. Then compare them to the measurements below: How old are the snakes? Compare with what you found.

**Green tree python =
72 inches, 3 pounds**

I'm _____
years old!

I'm _____
years old!

Milk snake = 8.5 inches, 0.2 oz

I'm _____
years old!

Rosy boa = 36 inches, 1 pound

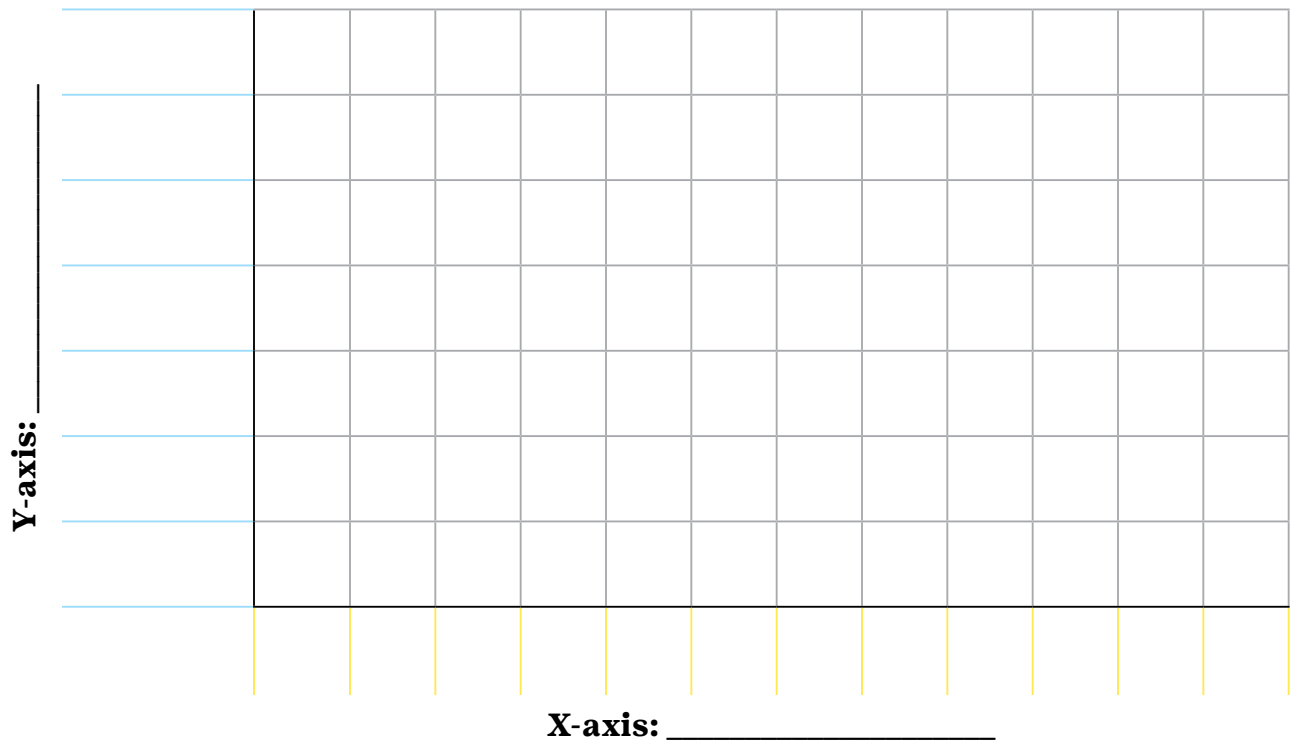
My Bird Data

**What is your first set of data?
(kinds of birds or days of week)**

This data goes on the x-axis
(side to side).

**What are your measurements?
(amount of birds or food)**

This data goes on the y-axis
(up and down).



How To Collect Data About Birds

Just like you observed natural objects, you can also collect and share data about birds.

Here's how:

1. Learn about the local birds. Where are you going? What kinds of birds normally live there?

2. Look for birds! Be very quiet, so you don't miss any birds. Sometimes you'll hear a bird before you see it, so look and listen very closely. If you see a bird but aren't sure which kind it is, try to identify it using a field guide.

3. Tally the birds you see. For example, if you see 3 cardinals, write the bird's name or draw it. Then make 3 tally marks.

4. Count your tally marks. When you're done, add your tally marks to find the total number for each kind of bird. Add these numbers together to find the total number of birds you saw.

5. Share your data. Think about what your data means. How can you share it with other people?

Date

Time

Location

Bird Type	Tally

Find the area and perimeter of plants

Perimeter = _____

Estimated area = _____²

How does the perimeter compare to the area? _____

Make sure to return any leaves or other natural objects to the place you found them.