

# Indiana Dunes National Lakeshore

National Park Service

U.S. Department of the Interior



## Junior Ranger Activity Guide



# Become a Junior Ranger

Welcome to Indiana Dunes National Lakeshore. As you explore, be sure to visit different areas of the park and enjoy your Junior Ranger adventure. From the beach to the farm, and back to the trails, there is much to discover in YOUR neighborhood national park.

## Junior Ranger Requirements:



All Junior Rangers must complete the activities with the Junior Ranger hat next to the title. They are on pages 3, 14, and 15.



If you are younger than 9 years old, complete three of the activities with the painted turtle next to the title. Also do the activities on pages 3, 14, and 15.



If you are 9 or older, you must complete five activities with the red fox next to the title. Also, do the activities on pages 3, 14, and 15.



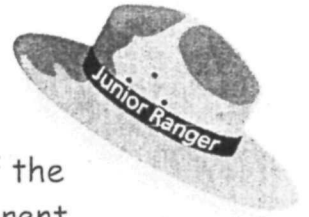
Bonus Sticker - Hike one of the parks many trails or go for a swim at West Beach when a life-guard is present.

During your Junior Ranger adventure, go on ranger-led tours, read the wayside exhibits, hike trails, and use your observation skills. Return this completed Activity Guide to the Indiana Dunes National Lakeshore Visitor Center to receive your official Junior Ranger badge or patch. Back at home, continue learning about the park through our website: [www.nps.gov/indu/forkids/index.htm](http://www.nps.gov/indu/forkids/index.htm)

### Thank You!

Thanks to the Friends of Indiana Dunes, Inc. for their support in the development and printing of this guide.

# Explore Your Parks



National parks are special places for all people to enjoy. Each of the almost 400 national park units in the United States tells a different story. Think of a place near your home that you would like to protect. What is special about it? Draw a picture of your favorite spot, and explain why it should stay just the way it is.

My favorite place is: \_\_\_\_\_

It should stay how it is because: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Drawing of My Special Place

What is the mission of the National Park Service?

(You can find a brief version of the NPS mission statement in the park's newspaper, *The Singing Sands*, and also on the park website, <http://www.nps.gov/indu/parkmgmt/index.htm>.)

---



---



---



---



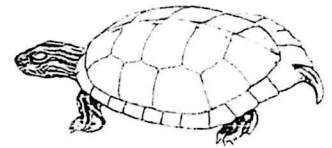
---



---



# Living Lakes



## Where to visit: Lake View Pavilion

People have used the Great Lakes for many different things throughout time. The lakes provide food, water, transportation, and a place to have fun. That is why it is important to preserve the Great Lakes.

To gain an appreciation of Lake Michigan, visit Lake View Pavilion on Lake Front Drive. Color in each of the Great Lakes on the map, record the name of each lake on the line, and circle the national parks that you have visited or would like to visit.

Our Great Lakes

Huron		Ontario		Erie
	Michigan		Superior	

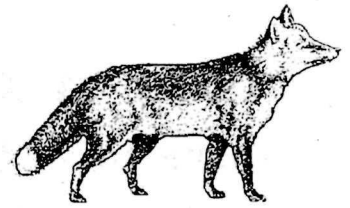
  

I visited Lake View Pavilion on \_\_\_\_\_

Parent's initials \_\_\_\_\_

# Glacier Games

## Where to visit: Indiana Dunes National Lakeshore Visitor Center



Although there are no glaciers in the Great Lakes today, these giant sheets of moving ice played a large part in the formation of the area.

Watch the video at the Indiana Dunes National Lakeshore Visitor Center. Fill in the missing words to tell how these lakes were made, using each word only once. Ask a ranger for help if you get stumped.

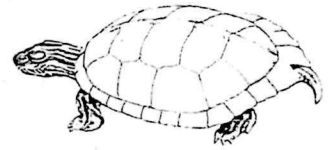
Basin	Wisconsin	Mile
Ice	15,000	Moraine
Rocks	Glacier	Great Lakes

Imagine that you are standing on the \_\_\_\_\_ Glacier nearly \_\_\_\_\_ years ago as it moved across northern Indiana. You walk to the edge of the glacier and notice that you are more than one \_\_\_\_\_ above the ground. As the giant sheet of \_\_\_\_\_ moves across the land, you see that it is picking up large \_\_\_\_\_ and other debris. Suddenly, the \_\_\_\_\_ starts to melt! Large chunks of ice and rocks that were caught in the glacier fall off and form huge piles around the edges of the glacier. The rocks and soil pile higher and higher as the glacier melts, and soon form a large \_\_\_\_\_. The water begins to fill the large \_\_\_\_\_ that was carved out by the moving sheet of ice. You take a moment to look at this amazing sight before you, and then realize that you are standing on the glacier that helped to carve out the \_\_\_\_\_.

I watched the video at the visitor center on \_\_\_\_\_.  
 Ranger signature: \_\_\_\_\_

# Footprints in the Sand

## Where to visit: Bailly Homestead



The first people to live in and around the Indiana dunes were American Indians. Potawatomi and Miami Indians relied on the land for food, water, and shelter. Part of the Little Calumet River Trail in the Bailly/Chellberg area was once used as a trade route by American Indians and early traders.

Take a walk along the trail, and follow in their footsteps by using a special method of hunting called stalking. When an Indian hunting party walked through the woods, they would make a straight line and walk in the footsteps of the person in front. Follow these instructions, and then see if you can sneak up on one of your friends!

**First, place the back of your heel on the ground.**

**Next, roll the side of your foot down from your heel to your pinky toe.**

**Lastly, slowly place the rest of your foot firmly on the ground.**

Do you think you could get food by hunting and stalking? List five animals that you would look for in the dunes if you were out on the hunt with the Potawatomi.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

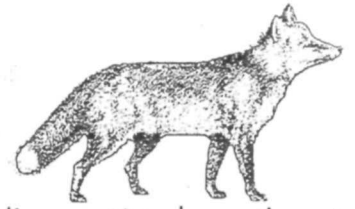
5. \_\_\_\_\_



I visited the Bailly Homestead on \_\_\_\_\_ Parent's initials \_\_\_\_\_

# Meet me at the Bailly's

## Where to visit: Bailly Homestead



When Europeans came into the Great Lakes region, they set up trading posts along rivers and trails. These trading posts were areas for people of all backgrounds to come together and exchange goods.

Visit the Bailly Homestead. Use the self-guided trail brochure found at the Indiana Dunes National Lakeshore Visitor Center and the signs of the homestead to help the Potawatomi exchange their traditional tools for modern European tools. Draw connecting lines.

### Potawatomi

Bow and Drill (Fire)  
Antler (Making Holes)  
Stone Axe (Chopping Wood)  
Clay Pots (Cooking)  
Gourd Containers (Storage)

### European

Metal Pin  
Glass Jar  
Flint and Steel  
Hatchet  
Iron Kettles

Fur trading cabin at Bailly Homestead

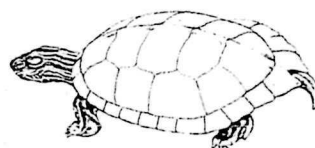


I visited the Bailly Homestead on \_\_\_\_\_. I saw \_\_\_\_\_ buildings.

# Stroll in the Sand

## Where to visit: The Beach

As you stroll along the beach, observe the animals and plants that make their home on the sand. Check off each living thing you see, and answer the questions.



Dragonfly \_\_\_\_\_

How many legs?



Fowler's Toad \_\_\_\_\_

Where does it live?



Six-lined Racerunner \_\_\_\_\_

What color stripes?



Ladybug \_\_\_\_\_

How many spots?



Spotted Sandpiper \_\_\_\_\_

What does it eat?



Marram Grass \_\_\_\_\_

Where does this grow?



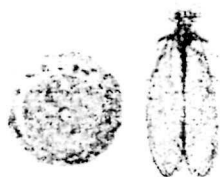
Cottonwood \_\_\_\_\_

How wide is the leaf?



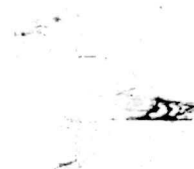
Wild Grape \_\_\_\_\_

How long is the leaf?



Ant lion \_\_\_\_\_

Find its funnel-shaped trap in the sand.



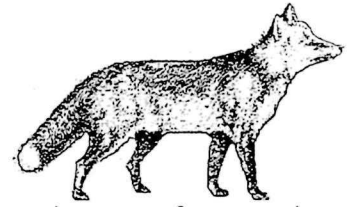
Herring Gull \_\_\_\_\_

Look for tracks on the beach.

I visited \_\_\_\_\_ beach on \_\_\_\_\_

# Water Safety

## Where to visit: The Beach



Lake Michigan is a very large and powerful body of water. Conditions change often and can sometimes be very dangerous. Before going swimming at any of the park's beaches, you should consider these facts and check conditions for safety.

1. Look at the waves. How high are they? Rate them from 1-5 with 1 being no waves and 5 being very tall with whitecaps. \_\_\_\_\_
2. How hard is the wind blowing today? Rate it from 1-5 with 1 being no breeze and 5 being a strong wind. \_\_\_\_\_
3. Which direction is the wind blowing from? \_\_\_\_\_  
Hint: if you are looking at the lake and the wind is blowing in your face, it is a north wind.
4. Do you see any change of color in the water? If you do, what color is it and where do you see it? \_\_\_\_\_
5. Do not swim without an adult who is comfortable swimming in the lake.  
Circle your swimming partner.  
MOM    DAD    RELATIVE    ADULT FRIEND    CHAPERONE
6. Did you bring a lifejacket? YES    NO

Since Lake Michigan is not a pool and does not have a flat bottom, it is safest to swim with a lifejacket. There are high and low spots throughout the shallow areas, and a lifejacket will help keep you floating if you step off the edge of a drop-off.



### Should You Go Swimming Today?

If you gave the waves a rating of three or higher, if the wind is blowing from the north, if white caps are present, and if you see a change of color in the water, there might be rip currents. **DO NOT GO SWIMMING.**

Parent's initials: \_\_\_\_\_

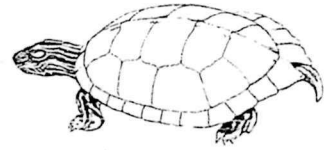


# Pond Patrol

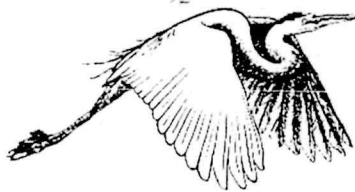
Where to visit:

**Miller Woods or West Beach Wetlands**

The animals that live in the Indiana dunes are very good at hiding. Even though they can be difficult to find, they leave clues about where they eat, live, and sleep. Look at the footprints, and do a three-way match, connecting the name of each animal with its picture and tracks. When you are finished, visit the wetlands and look for tracks.



Canada Goose



Beaver



Great Blue Heron



White-tailed Deer



Raccoon



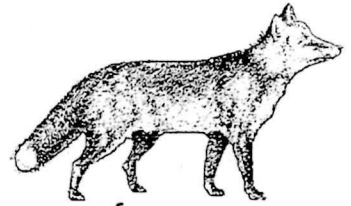
Bull Frog



I visited \_\_\_\_\_ on \_\_\_\_\_.

# Secrets of Succession

## Where to visit: West Beach Succession Trail



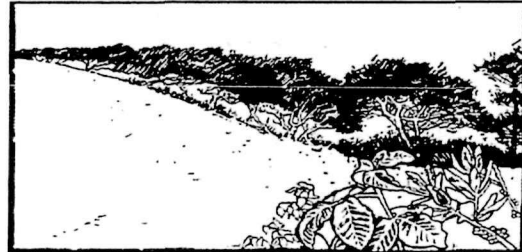
Indiana Dunes National Lakeshore is part of one of the largest expanses of freshwater dunes in the world. How were they made?

Walk along the West Beach Succession Trail using the self-guided trail brochure. Watch the transformation from the lake to the forest. As you explore, order each stage of the dunes by putting the numbers 1-4 on the line next to each description.



Stage # \_\_\_\_\_

Jack pines and junipers take root in the sand behind the foredunes and help to create a more stable dune.



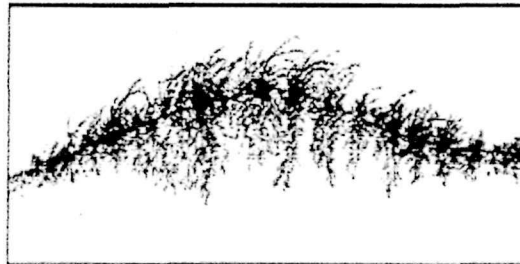
Stage # \_\_\_\_\_

Cottonwood trees and more diverse plants begin to grow on the back, or lee side of the dune. When their leaves fall off, they decay and make soil that is better for trees and shrubs to grow in.



Stage # \_\_\_\_\_

Black oak and hickory trees begin to grow in the richer soil and create a wooded dune.



Stage # \_\_\_\_\_

Pioneer plants, such as marram grass, spread their roots out under the sand and catch the sand blowing off the beach.

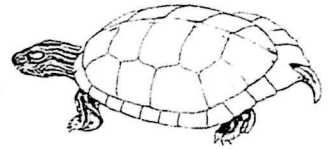
If you have a thermometer, record the following information:

Air temperature \_\_\_\_\_ Water temperature \_\_\_\_\_ Soil Temperature \_\_\_\_\_

I walked the West Beach Succession Trail on \_\_\_\_\_.

Parent's Initials \_\_\_\_\_

# Discover With Your Senses

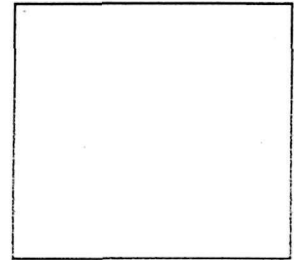
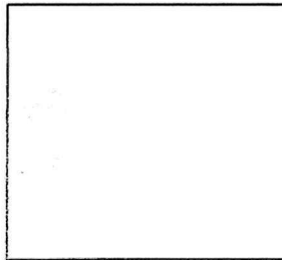
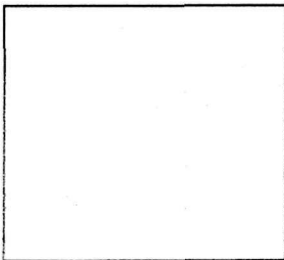


## Where to visit: One of the park's hiking trails

Indiana Dunes National Lakeshore is full of sights, sounds, and smells. Find a trail that you would like to hike. While you are walking, tune into your senses and answer the questions. And remember to always hike with a friend or parent.

(Park and trail maps are available at the visitor center.)

1. Describe the weather to your friend or parent. Is it cloudy or sunny?  
Do you feel warm or cold?
2. Find three different trees on the trail. Compare the leaves and then draw a picture of each of them in the boxes.

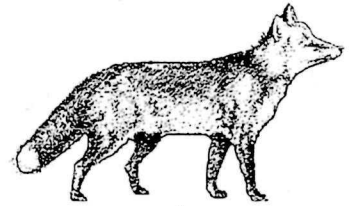


3. Look for evidence of animal activity. How many tracks do you see on the ground? \_\_\_\_\_ Do you see any movement in the trees or in the sky?
4. Stop for a moment and listen carefully for sounds. Do you hear the rustling of leaves? What about birds chirping? Talk with your hiking partner about the sounds you hear and what might be making them.
5. Take a deep breath through your nose. Do you smell anything special? Tell someone how the smells along the trails are different from the smells at home.

I hiked the \_\_\_\_\_ trail on \_\_\_\_\_.

# Barnyard Bingo

## Where to visit: Chellberg Farm



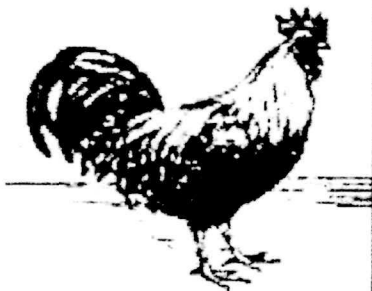
Welcome to the farm! More than 100 years ago, the Chellberg Farm was owned by Swedish immigrants named Anders and Johanna Chellberg.

Take a tour of the farm with a ranger, or use the self-guided brochure to tour the area with your family or friends. Look for the different tools people used to work the land.

While you are discovering the farm, check off the things you see.

(Brochures are available at the visitor center.)

Field Plow	Fence	Garden	Yoke
Clothes Line	Windmill	Wood Stove	Scarecrow
Water Trough	Sorghum Press	Fire Wood	Barn
Sugar Shack	Chicken Coop	Wagon	Corn Crib



Help out on the farm!

Check with a ranger at the farm or at the Indiana Dunes National Lakeshore Visitor Center to see when there will be a program at the farm. If time permits, go to the Chellberg Farm, and participate in the program.

Date: \_\_\_\_\_



## Walk with a Ranger

One of the best ways to have fun and learn about Indiana Dunes National Lakeshore is to go on a ranger-led program. Go to the Indiana Dunes National Lakeshore Visitor Center or look on-line at [www.nps.gov/indu](http://www.nps.gov/indu) to find out what activities are taking place during your visit. Attend one or more with your family. Listen to the ranger; fill in the blanks.

Name of program: \_\_\_\_\_

Date and time of program: \_\_\_\_\_

One thing you learned: \_\_\_\_\_

\_\_\_\_\_

Ranger Signature: \_\_\_\_\_

**OR**

## Talk with a Ranger

Have you ever wondered what it would be like to be a ranger? Now is your chance to find out! Look for a person wearing a grey and green uniform with a badge and an arrowhead logo on their arm. Introduce yourself, and let her or him know you are becoming a Junior Ranger. Ask these questions and record their response:

What is your name? \_\_\_\_\_

How long have you worked here? \_\_\_\_\_

What is your favorite part of the park? \_\_\_\_\_

What do you like best about your job? \_\_\_\_\_

Ranger Signature: \_\_\_\_\_

# Junior Ranger Training Camp



Now that you have been all around the park and have completed the activities, think about some of your duties as a Junior Ranger. Describe what you will be doing to celebrate the 100th Birthday of the National Park Service AND the 50th Birthday of Indiana Dunes National Lakeshore:



National Park Service **100th Birthday** Activities:

---



---



---



Indiana Dunes **50th Birthday** Activities:

---



---



---

**FIND YOUR PARK** Activities:

Be sure to go to [www.findyourpark.com](http://www.findyourpark.com) and tag and share your park experience:

What park will you find next? \_\_\_\_\_

How will you share? (circle one):

PHOTO, STORY, PAINTING, POEM, VIDEO, SONG, or DANCE



**EVERY KID IN A PARK** Activities:

Are you a 4th grader? Yes No

Have you earned your free 4th grader pass to any national park or other federal lands? Yes No

If not visit [www.everykidinapark.gov](http://www.everykidinapark.gov)





# Junior Ranger Oath

As a Junior Ranger, I \_\_\_\_\_,  
promise to learn about and protect the plants, animals, and  
history of Indiana Dunes National Lakeshore. I will share  
what I have learned about national parks and will continue to  
explore our national treasures.

Your Signature

Date

Ranger Signature

Date