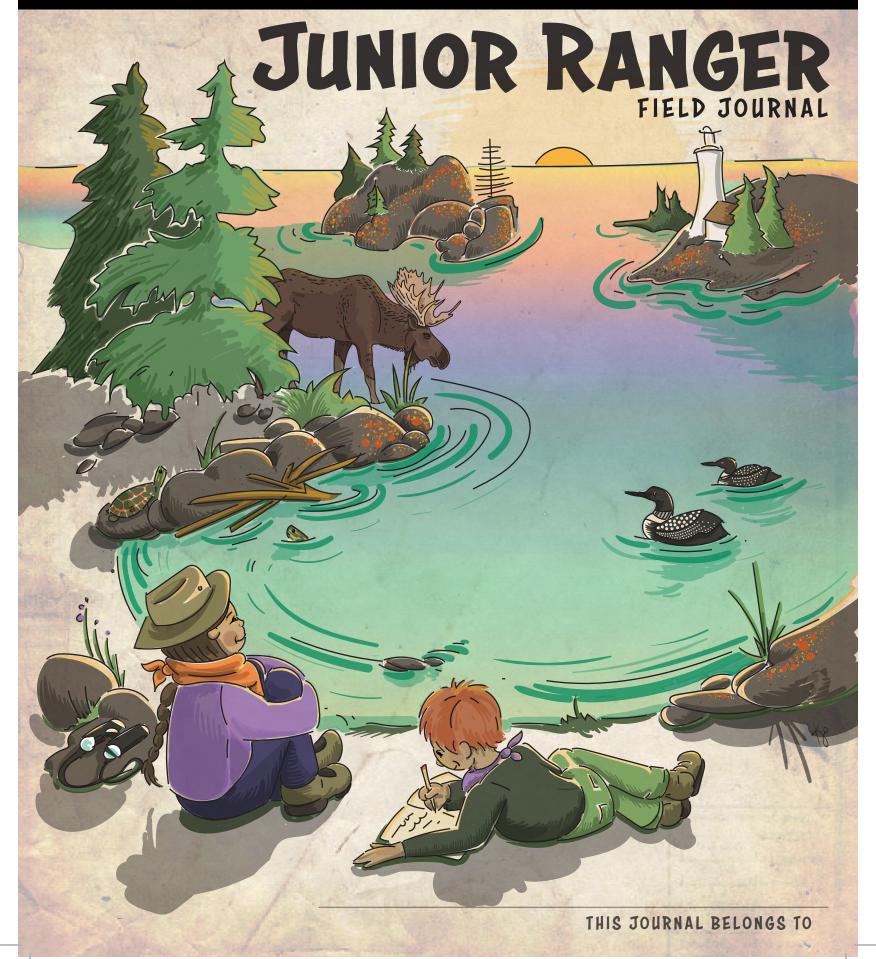
Isle Royale National Park Michigan





Welcome, Junior Ranger!

The second secon

Isle Royale National Park is a wild place. The park consists of over 400 islands, and even includes part of Lake Superior. At Isle Royale you can connect with nature, make memories, and discover more about yourself. Use this journal to have fun, explore Isle Royale, and learn what you can do to protect the park.

How can you become a Junior Ranger?

Work on Your Journal

- O Ages 6-8: Complete at least 5 activities
- O Ages 9-12: Complete at least 8 activities

Go on at Least Two Adventures

- O Take a hike
- O Explore by boat, canoe, or kayak
- O Spend 10 minutes outside in the dark
- O Observe something with binoculars
- O Jump in Lake Superior
- Explore a historic site or artifact with your eyes
- O Spend a night in the park
- O Fish in Lake Superior or an inland lake
- O Attend a Ranger Program

Become a Junior Ranger

- Go to the Houghton, Rock Harbor, or Windigo Visitor Center
- O Share your journal with a ranger, take the Junior Ranger oath, and receive your Isle Royale Junior Ranger badge

Record Your Adventure on the Map!



Where You Visited in the Park



Wildlife Sighting



Where You Would Like to Go



Lake Superior is the world's largest freshwater lake. Everyone must cross it to reach Isle Royale. How did or might you travel to the park? Circle your way below.









The second second second second second





Seaplane







Sailboat or Powerboat

Trail

Lighthouse



Campground

Å

Write 3 words that describe the weather conditions as you crossed Lake Superior.

If you have not traveled to Isle Royale, describe what your crossing might be like.

Island Isolation

How did wildlife and plants get to the island? Scientists do not know for sure. Draw a line from each animal or plant to your best guess of how they arrived at Isle Royale. Some answers may be used more than once.



The second secon









Walked on Ice

Boated

Blown

Floated (on a log or branch)







Name one plant or animal that you are surprised does not live on Isle Royale. Do you think it might live here someday in the future? If so, how might it arrive?

Isle Royale Invaders

Isle Royale is being invaded, but not by what you might expect. These invaders are plants and animals that belong somewhere else. When invasive species come to the island, they can take water, food, and space that native species need to live. This is bad news for the plants, fish, and other creatures that call Isle Royale home. How might invasive species change Isle Royale?

Committee of the second second

Before



Native plants on shoreline

Invader Arrives!



Spotted knapweed arrives

After



Draw what might happen

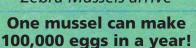
Each plant has 1000 seeds!



Diver on America shipwreck



Zebra Mussels arrive





Draw what might happen

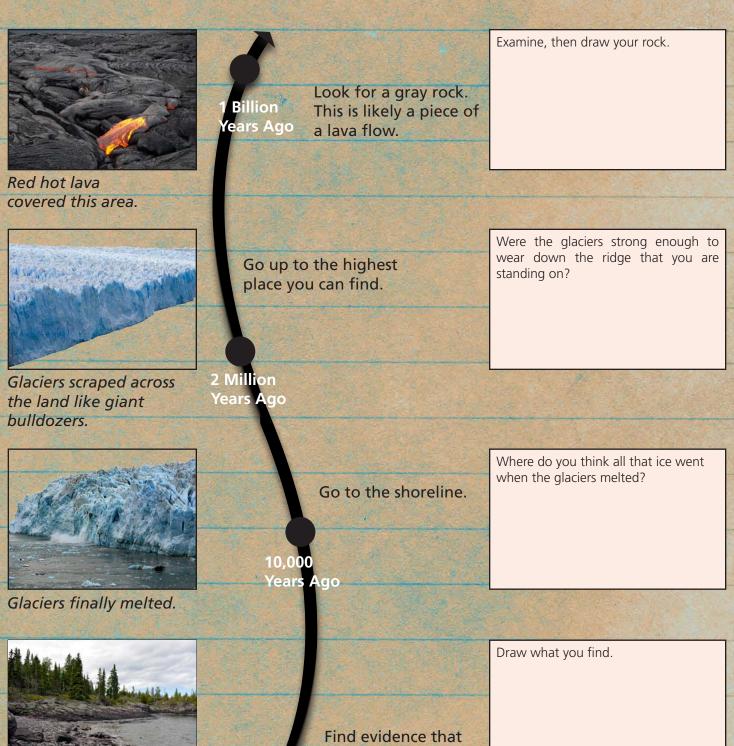
Invasive Species Prevention Plan

Think about how invasive species travel to Isle Royale.

Draw or write your plan to help rangers prevent their arrival.

Time Traveler

Where did the rocks on Isle Royale come from? Why does the landscape look the way it does today? Become a geologist and travel through time to investigate how fire and ice have shaped this place by searching for evidence. If you are on the mainland, investigate the area around you.



the land is changing.

Toda

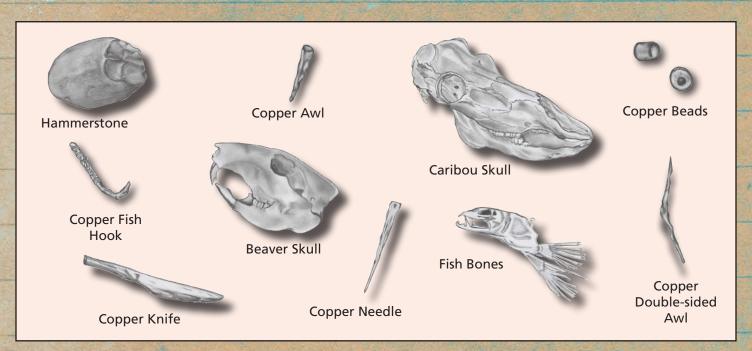
Isle Royale's land is still changing today.

Past Clues

Archaeologists study the things people left behind to learn how they lived. On Isle Royale, archaeologists find things from American Indians who came here thousands of years ago.

The second secon

Here are a few artifacts – things made by people – and other items left behind by the island's first visitors. They are important clues about what they did on Isle Royale.



- 1. Using these clues, can you figure out what these people ate?
- 2. Name the raw material they used to make their tools and jewelry. They found this material on Isle Royale.
- 3. Which tool shown above did they use to get this material?
- 4. If an archaeologist came to your house, what would your things tell them about you and your family? Write or draw your answer.

Wildlife Watcher

Isle Royale is a great place for researchers to study animals. Become a researcher. Your mission: to observe signs and behavior of animals.

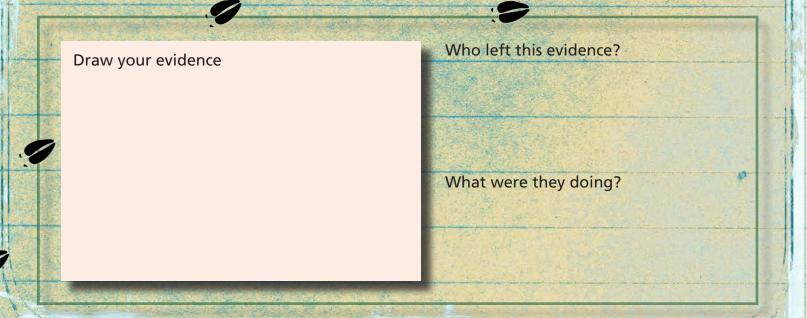
Be on the lookout for critters of all shapes and sizes! Search high, search low. Look up close, and off in the distance. You might also find clues that animals have been in the area – like tracks, nests, holes, scat (poop), and chew marks.

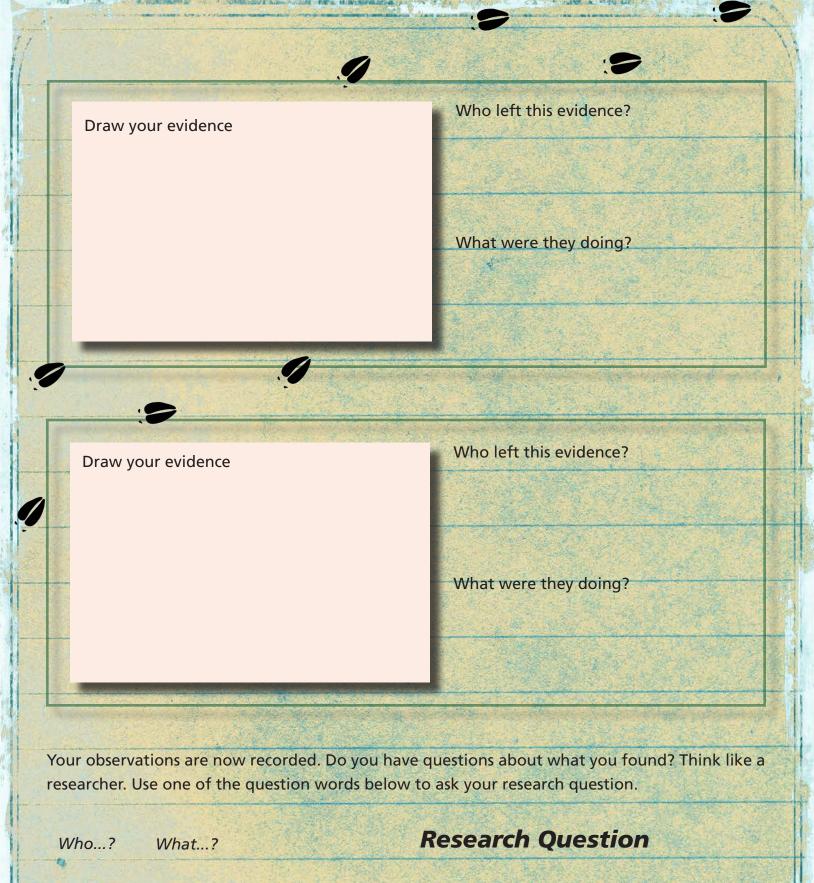
Record all of your observations below in your research notes.

Draw your evidence?

Who left this evidence?

What were they doing?





When ...?

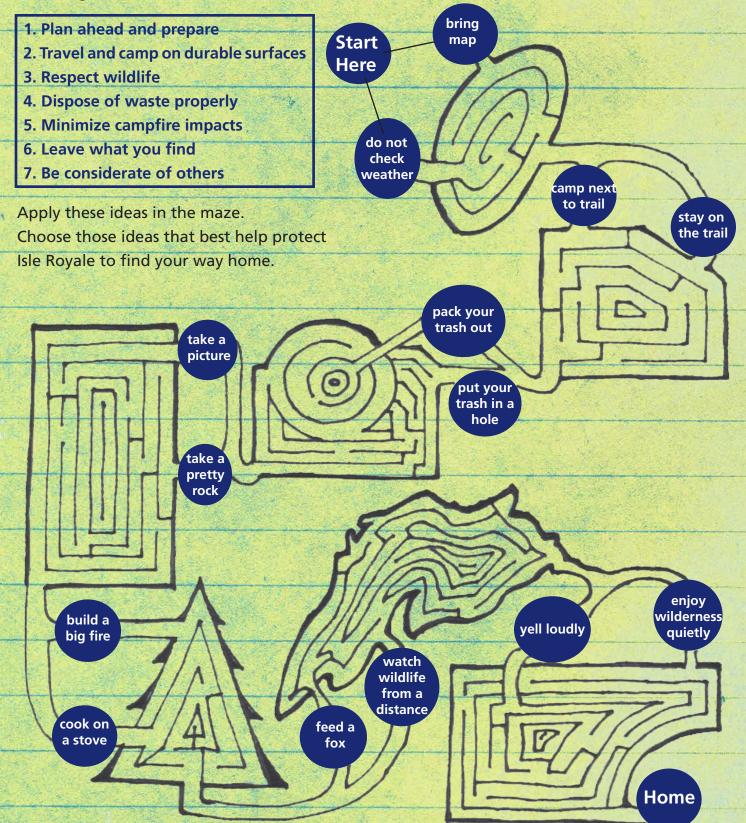
Why...?

Where ...?

How ...?

Into the Wild

Junior Rangers help protect Isle Royale's wildlife and plants by taking care of the island. They also share with others how to take care of the park. One way you can take care of Isle Royale is by following the seven ideas of *Leave No Trace*.

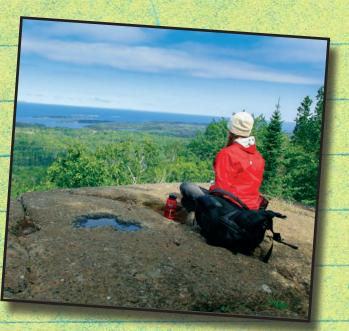


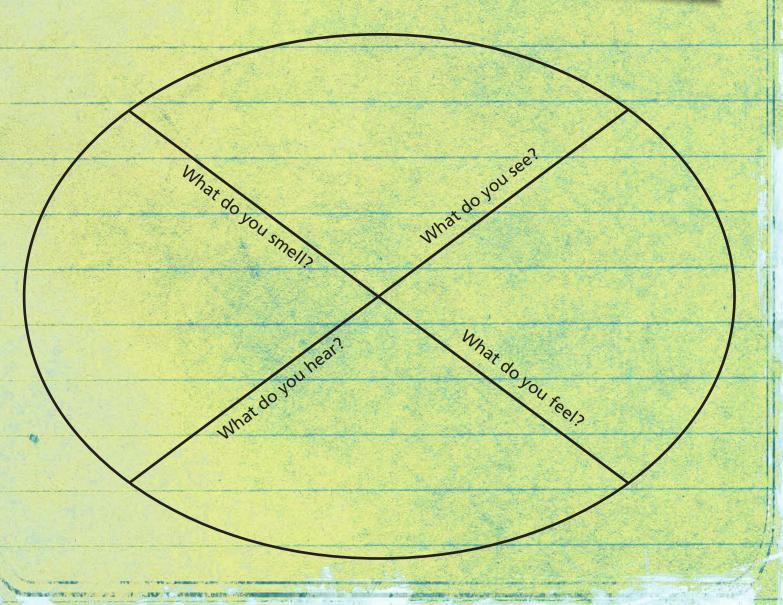
Sensing Wilderness

Isle Royale is wild! More than 99% of the land is WILDERNESS – a special place where people are just visitors; there are no roads or buildings.

Go out for a walk in the wild wherever you are. Select a special spot and sit quietly. Try to be as still as you can. Look, listen, smell and feel the wilderness that surrounds you. Record your observations.

Remember, when exploring wilderness, you should leave it the way you found it.





Lighthouse Living

More than a hundred years ago, John Malone was a lighthouse keeper on Isle Royale. His wife and eleven children lived with him. No grocery stores were on the island, so the children collected gull eggs, fished, and picked berries. There were no televisions or computers, so the Malone kids played musical instruments and made up games.



Imagine you are one of the Malone children. Write a letter to a friend. When you come to a blank space, choose a word from the list to put in the blank or make up your own word.

rowboats	dinosaurs	chocolate	spaceships
tag	baseball	spaghetti	hide and seek
wolves	tigers	ice cream	canoes
treasure	berries	terrible	spinach
pirates	mermaids	gull eggs	ships
moose	music	wonderful	greenstones

Dear _____,

Hello from Isle Royale! I am having a				
time living at the lighthouse. It is a little				
	owded! But my ten brothers and sisters and I			
have fun playing Yesterd	day, we took			
across the lake to another	er island and			
looked for Our grocerie.	s have almost			
run out, and I miss eating	Please mail			
me some with your next	letter! Right			
now, out on Lake Superior, I can see				
going by. I hope you will come and visi	t.			

Your friend, ____

Fishy Findings

Isle Royale's reefs and deeps provide many homes for lake trout to live. Lake trout at Isle Royale are the same type, or *species*, but they can look different (just like us!). Researchers have identified four different forms of lake trout. One form lives on humps of reefs, another lives down deep. One is long and lean. One is a flashy dresser. Each form fits where and how it lives.

Committee of the Commit

Imagine you are a researcher and have identified a new lake trout form. Make your research notes here:

Where does it live?

What does it eat?

Other observations:

Sketch your lake trout:

Name your lake trout form:



My name is *Humper*. I like to live just off the shore of Isle Royale near reefs.



My name is *Lean*. I like to live in shallow water (less than 70 meters deep).

My name is *Siscowet*. I like to live down deep in Lake Superior (over 100 meters).



My name is *Redfin*. I like to live in water that is not too deep, but not too shallow (average 80 meters).

Ranger Rank

Rangers work together as a team to protect Isle Royale. There are different types of rangers that help take care of the park. What type of ranger are you? Answer the questions below to find out!

The same of the sa

- 1. If you were an animal at Isle Royale, vou would be a -
- A. Beaver. You like to change the environment around your home.
- B. Lake trout. You are always on the move.
- C. Moose. You defend yourself and others.
- D. Loon. You enjoy expressing yourself.
- E. Raven. You have a curious mind.
- 2. If you could do one activity at Isle Royale, vou would like to -
- A. Go on a backpacking trip. You like to hit the trail and get your feet dirty.
- **B.** Observe the night sky. You like to see the big picture.
- **C.** Jump in Lake Superior. You like to take the
- **D.** Attend a guided tour. You like to learn about the park.
- **E.** Scuba dive a shipwreck. You like to dive beneath the surface and look at the details.
- 3. If you wrote a book about Isle Royale, it would be called -
- A. How to Build and Take Care of Trails and Campgrounds
- **B.** The History of Isle Royale National Park
- C. Protecting Island Resources: Why Leave No Trace Works for Isle Royale
- D. Isle Royale Plant and Wildlife Nature Guide
- E. Isle Royale: A Great Place for Research
- 4. If you were a tree at Isle Royale, you would be a -
- A. Quaking aspen. You like to grow as part of
- **B.** Balsam fir. You like to be responsible for things.
- C. Paper birch. You like to take the lead.
- **D.** Northern white cedar. You like to help people.
- **E.** White spruce. You are comfortable exploring new places.

Mostly A -

Maintenance rangers maintain trails and campgrounds, generate water and power, and keep buildings safe.



Mostly B -

Administration rangers keep park rangers organized and set goals for the park to accomplish.



Mostly C -

Protection rangers respond to medical emergencies, perform search and rescues, and fight wildland fires.



Mostly D -

Interpretation rangers help visitors plan trips to Isle Royale and give programs about park resources.



Mostly E -

Resource rangers travel all over Isle Royale to study plants, wildlife, and human history.



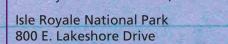
My Journal Notes

Record notes, drawings, and other observations from your adventure.

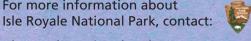
Keep Exploring, Junior Ranger!

- O Learn more about Isle Royale National Park online at: www.nps.gov/isro
- O Visit other Lake Superior national park sites, like Keweenaw, Grand Portage, Apostle Islands, and **Pictured Rocks**
- O Discover the National Park Service site or public land closest to your home
- O Become a Web Ranger at: www.nps.gov/webrangers

Thanks to the National Parks of Lake Superior Foundation for contributing printing funds.



For more information about



Houghton, MI 49931 (906) 482-0984

Acknowledgements

- p Front and back cover illustrations: Katie Jo Wright
- © Content and interior designs: Nick Clark, Krysten Hintz, Katie Keller, Karl Larson, and Valerie
- Spotted knapweed (p. 4), lava (p. 5), glacier (p.5), and glacier melting (p. 5) photos are licensed under CC BY 2.0
- Page 10 photo courtesy of Erika Vye
- Page 12 illustrations: P. Vecsei (Golder Associates) for the Great Lakes Advisory Commission

JUNIOR RANGER ISLE ROYALE NATIONAL PARK

This certificate of achievement is presented to:

As a Junior Ranger,

I promise to preserve the beauty of the island.

I will keep Isle Royale in my heart forever by sharing it with others. I will profect the plants and animals that call the park home.



Park Ranger signature