### Kenai Fjords National Park

National Park Service U.S. Department of the Interior



# Adventure Guide

## unior Rangers:

EXPLORE your national parks.

RANG

+ RLORE

Learn about your national parks so you can teach others about them.

**Protect** your national parks by learning and asking others to help take care of the plants, animals, and features of the parks.

## To Become a Junior Rangers

**]** Complete these pages in this booklet:

- If you are 4-6 years old do all of the otter pages (10,14 and 21) plus do at least 1 page of your choice.
- If you are 7-9 years old do all of the whale pages (17,19 and 20)
   plus do at least 3 pages of your choice.
- If you are 10-12 years old do all of the black bear pages (3,4 and 22) plus do at least 5 pages of your choice.
  - Complete the certificate on the back cover, take the Junior Ranger oath, and get a ranger's signature.

36 Wear your Junior Ranger badge proudly.



## are National Park Rangers, What do they do?

Many different people become National Park Rangers. They are all dedicated to protecting and preserving the national parks and helping people like you learn about them. There are five types of rangers who work at Kenai Fjords National Park.

#### Draw a line from each description to the picture of each kind of ranger.

These rangers help you learn about the park. They give programs to help visitors discover the park.

> These rangers keep the park looking nice. They build trails, keep machines running, and take care of park buildings.

These rangers are the park scientists and historians. They do research and help inform the interpretive rangers.

These rangers do the park paperwork. They pay the park's bills and keep communication systems running smoothly.

These rangers protect the park, enforce rules, and help if visitors get hurt.

## Resource Management



Law Enforcement

Interpretation



Administration

Welcome to There are nearly 400 national park sites in the United States. Each one is protected for its own unique reason.

**Kenai** (*keen-eye*): origin uncertain, either from "Kenayskaya" the Russian name for Cook Inlet or from the language of the Dena'ina Indians meaning "two big flats and a river cut back."

**fjord** (*fee-yord*) a long, narrow, steep-sided valley carved by glaciers and filled in with seawater.

**National Park-** A place where nature and/or history is protected so that all people can enjoy it without harming the ecosystem or the stories of the past. We are all owners of our country's national parks.

#### Check off the things below that you will find at Kenai Fjords National Park



## The Creation of a FJOCO

A fjord is a very deep valley carved out by glaciers and then filled in with sea water.

#

creating a \_\_\_

Fill in the blanks in the story below. Use the Word Bank if you get stuck. Give each picture a number. Which came first, second, third and fourth?



The glacier becomes bigger and \_\_\_\_\_, which causes it to carve \_\_\_\_\_ between mountain peaks.



When the climate warms, the glacier melts, or \_\_\_\_\_, leaving a deep

valley.



As the glacier melts, the sea levels

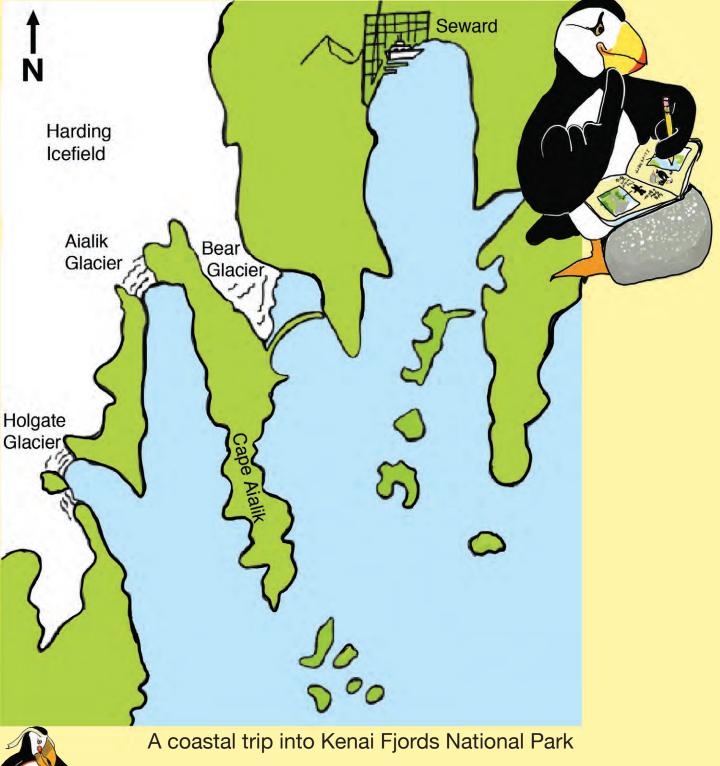
\_\_\_\_\_. Water floods the valley

Snow builds up in an icefield and ice spills over the edges creating a \_\_\_\_\_



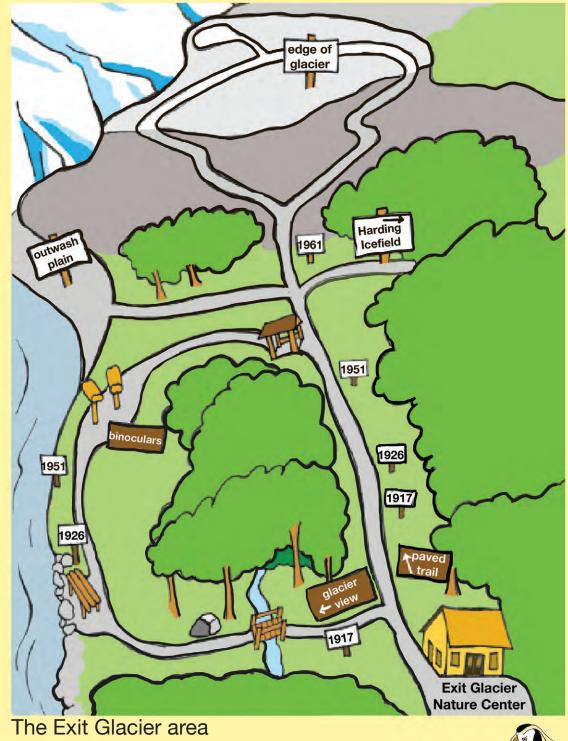
Word Bank fjord recedes glacier rise heavier valleys

## Where did you go? Use the maps on these two pages to record your visit to Kenai Fjords National Park.





What did you see? What did you hear? What did you smell? Where were you? You can write and draw right on the maps.







The research boat Natoa has seen four humpback whales today.

Use the Fluke Records book to identify the whales and write their names or numbers in the spaces under their tails!

> Humpback Whale Fluke Records

1-0009

Z58-Alfonso

Z-29 Spyglass

1-0006

Just like every human has unique fingerprints, each humpback whale's tail, or "fluke," has different cuts, scratches, and color patterns that make it unique.

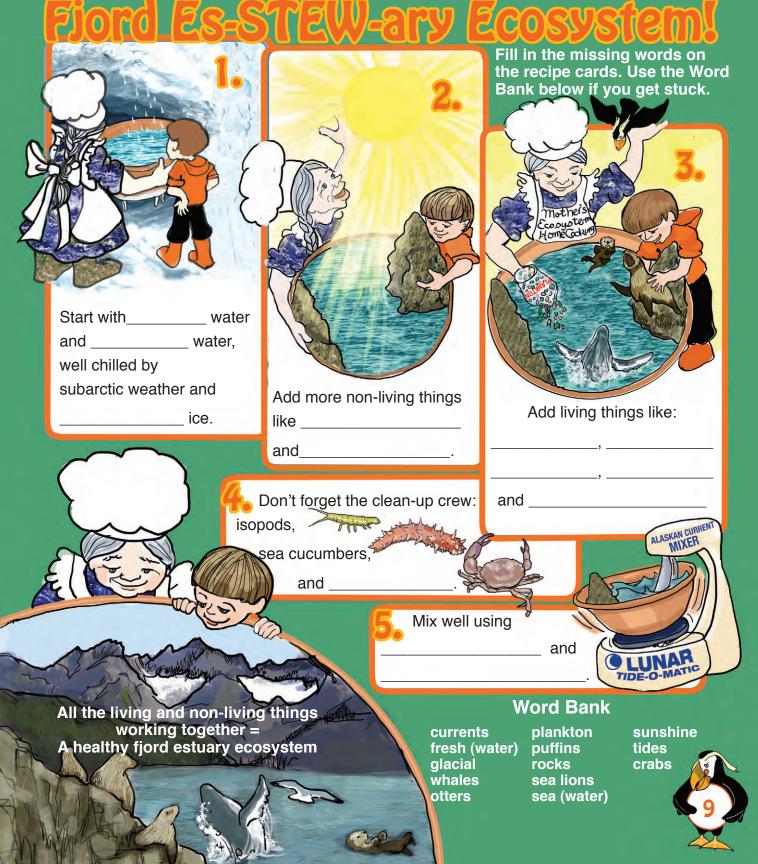
Z11

Puffin tails are not so easy to use for identification.

Y-76 Morgan LeFey

1-0004

An ecosystem is a community of living things and all the non-living things on which they depend. An estuary is an ecosystem where fresh water and seawater meet. Help Mother Nature whip up one of her favorite recipes:





## **Plant** Succession

Read the clues to discover the order that plants move on to the landscape as Exit Glacier recedes. Then number the pictures 1- 6 to show which plant came 1st, 2nd etc.

> **Cottonwood** needs bright sunlight to sprout but also require other plants to prepare the soil so they can grow.

When glaciers melt, plants begin to take over the rocky land in a special order. Some plants are good at starting in poor soil and building it up. Others take over when the soil is rich. This process is called plant succession.

#### Sitka Alder

can make its own nitrogen, an important nutrient for plant growth. This shrub grows in the rocky area in front of the glacier and helps prepare the land for larger trees to follow.

**Dwarf Fireweed** seeds are blown in on the wind and can grow on the broken down rock near the glacier.

## Lichen and Moss create the first soil by breaking down newly exposed rock.

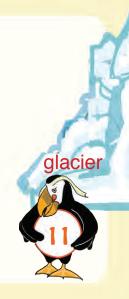
If you visit Exit Glacier try to spot each of the plants mentioned above. Draw the plants into a picture that shows where you find them in the glacial landscape below. Feel free to add rocks, mountains, and streams.

#### Spruce and Hemlock begin to

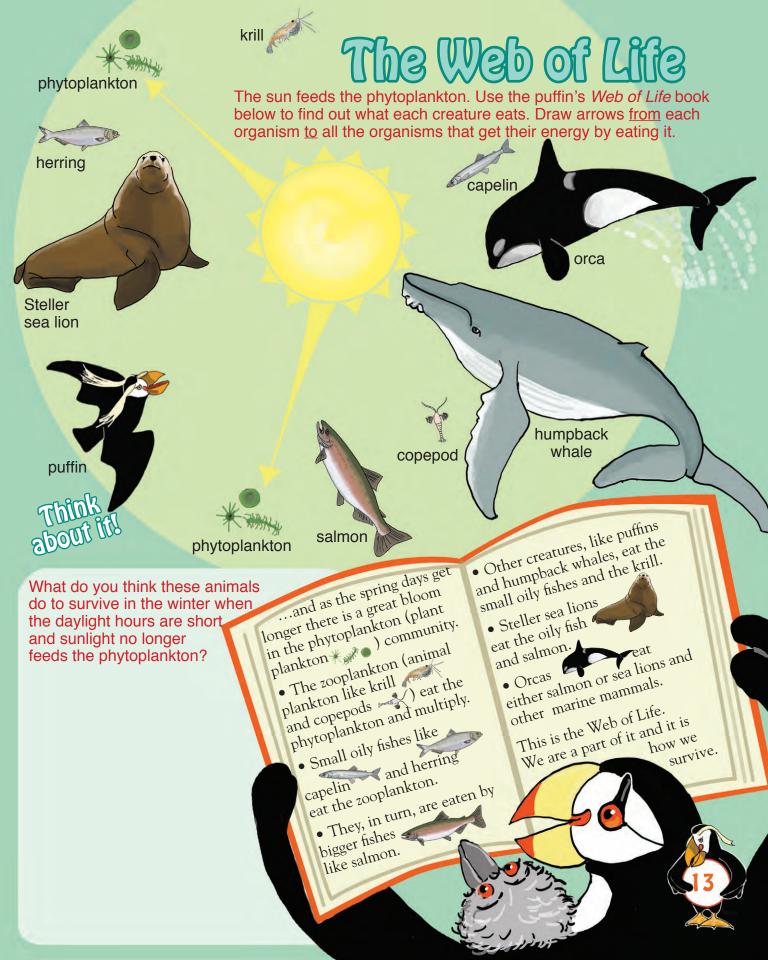
sprout in the cottonwood forest and eventually shade out the forest of plants that made their growth possible.

#### Willows prefer

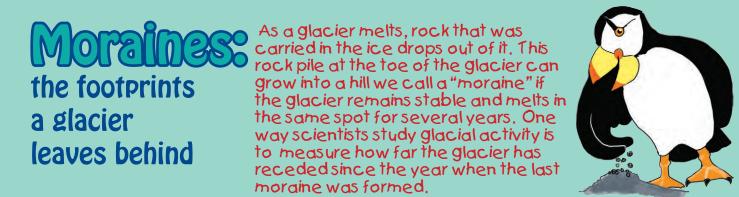
wet areas slightly sheltered from the glacier. They move in soon after alders.



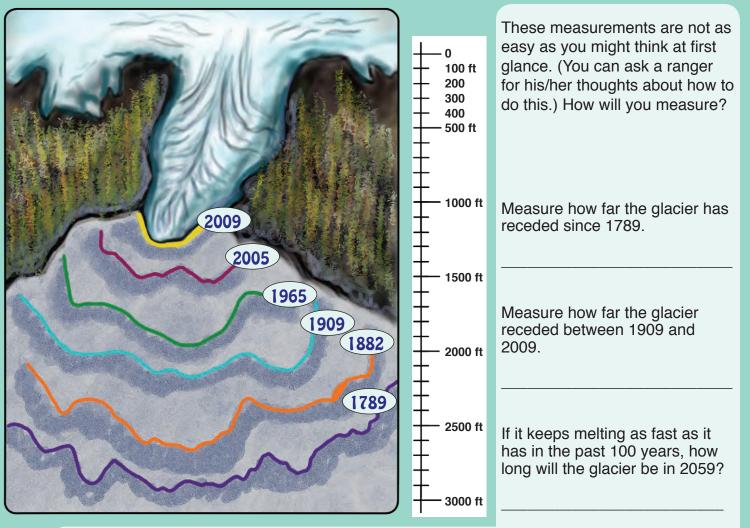








### See what you can learn by measuring moraines:



The moraines suggest that the glacier was wider in the past. How could that affect the speed at which the glacier recedes?



## **Use Those Binoculars**

Binoculars are a great tool for studying the natural world. You can learn a lot by watching animals or calving glaciers from a safe distance.

1. Put the strap around your neck so your binoculars don't fall.

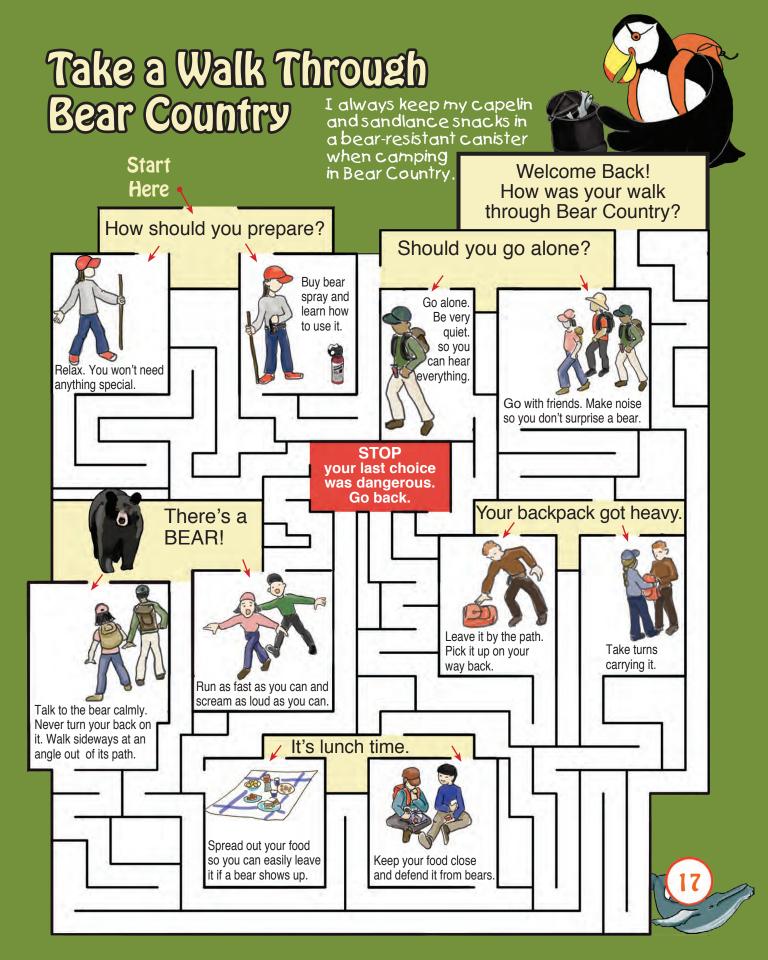
2. Look through the eyepiece lenses.

3. Twist the focus dial until your view is sharp and clear.

Use your binoculars to find something far away that interests you. Describe and draw what you see.

What details could you see with the binoculars that you couldn't see without them?







from the animals and plants of the Kenai Fjords area.

skin parka

You can practice stewardship (taking care of the earth) every day. The ideas below are just a start. Check the ways you are already a good steward and things you will do in the future to help keep our planet healthy. Don't forget to add one of your own ideas. The creatures at Kenai Fjords will thank you.



32 a Steward

2873

Visit National parks.



Recycle.
I do this.
I will do this.



Save Water! Take shorter showers. I do this.



Eat local fruits and vegetables. They use less packaging and less transportation.



Learn about a local plant. I do this. I will do this.



Don't use paper unless you have to. I do this.

Bicycle or

parents to drive.

☐ I do this. ☐ I will do this.

walk instead

of asking your



Unplug electronics not in use.



Learn about a local animal. I do this.

My stewardship idea:



Share photos and stories about your trip to the parks. I do this.



What I love most about Kenai Fjords National Park ....

	glacier	
	thing	
calving	crashing	creaking
action	action	action
massive	frozen	blue-white
description	description	description
	awe	
	feeling	— K

Take a few minutes and think about your visit to Kenai Fjords National Park.

Choose an animal, place or other thing you really liked and fill in the blanks below to make a poem about it. I like glaciers, that's my poem.

	thing	
action	action	action
description	description	description

## and how I will protect it.

Now think about what you can do to protect this park, other parks and our planet. Write a personal oath, or promise, about what you will do.

Here are some words you might like to use:

wildlife	trash
ocean	plants
protect	learn
conserve	explore
respect	clean





### What Kenai Fjords National Park Means to Me. Badges are reminders of the

NATIONAL PARK

ERVICE

Badges are reminders of the things that are important to us. Mine reminds me of the Beehive Islands, the ocean, and my family.

All rangers wear an arrowhead-shaped badge. The symbols on the badge, the arrowhead, mountain, sequoia tree, bison, and water remind rangers of what they protect.

Create your own badge about Kenai Fjords National Park. It can have any shape and contain anything you want.

	SP	offight of It's your turn t your ranger. know like: " ranger?" or	<b>b Source</b> o ask the quest Ask whatevel Why did you be "What was the	Ranger stions. Interview ryou want to ecome a e weirdest ark?" L'll get you	
1. What	Rai	started with t you choose t nger's Name	the first two qu two more to as	destions then sk.	
 2. Why is I	Cenai Fiords a	National Park '	2		
			•		
3					
4					
22					A de la de l

### rake your memories bome with you.

You'll see reminders of us everywhere as you remember your trip to Kenai Fjords National Park. In this picture find the orca, common murre, sea otter and pup, hoary marmot, oystercatcher, sea lion, cormorant, humpback whale, krill, and rhinoceros auklet.



Jour Address Kenai Fjords National Box P.O. Box 1727 Seward, AK99664

#### You can be a WebRanger too!

Just go to: www.nps.gov/webrangers and sign up for free. Play your favorite WebRanger games and learn about your national parks.

Earn your WebRanger badge!

#### Didn't finish your Junior Ranger activities in time?

Acknowledgements:

Ba Rea of Bas Relief LLC,

Nareen Bagdassarian,

Elise Kahl and

Fiona Ritter-Davis.

That's okay, you can still get your badge!

1. Finish the book at home.

2. Mail it to the park, in an envelope addressed like the one above.

3. We will return your book and badge in the mail!

## Kenai Fjords National Park

As a Junior Ranger, I promise to help protect Kenai Fjords National Park, my community, and the earth.

> I will explore and discover the natural world and other cultures wherever I go!

Presented, on completion of the Junior Ranger Adventure Guide, to:

On

Park Ranger