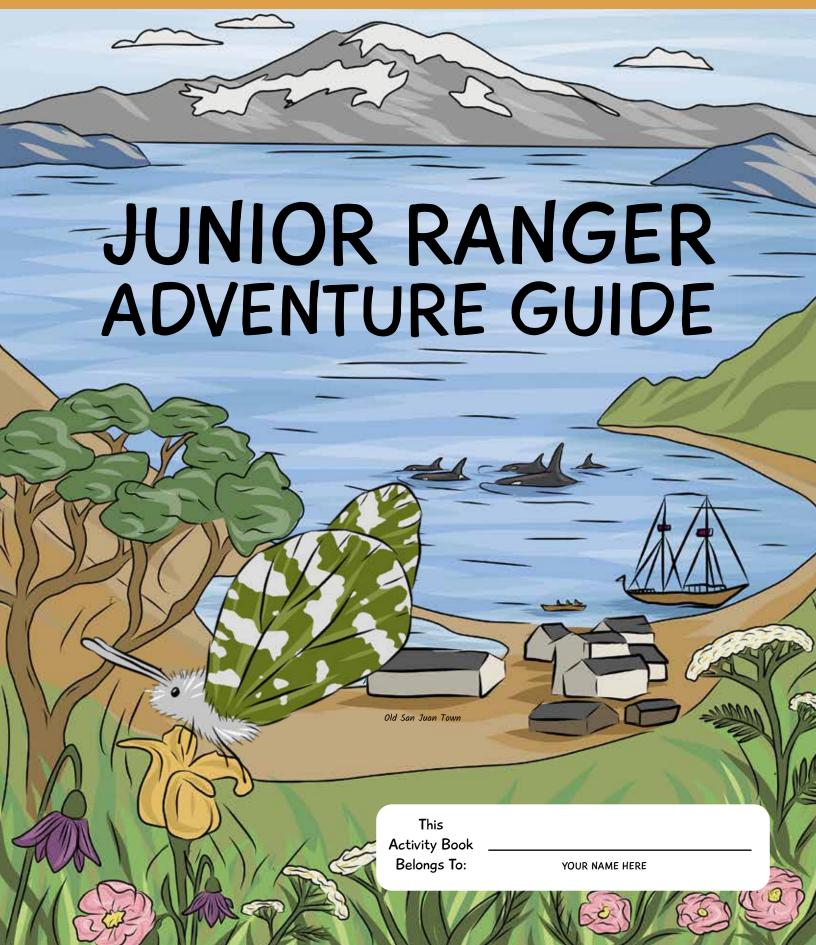
National Park Service U.S. Department of the Interior





WELCOME TO

San Juan Island

National Historical Park

Use the activities in this book to become an official Junior Ranger!



WHAT'S A JUNIOR RANGER?

As a Junior Ranger, you:

Explore the land around you.

Learn about plants, animals, and people of San Juan Island.

Protect land and water through your words and actions.



Complete as many activities as your age. For example:

If you are 6 years old, complete at least 6 activities!

When you are done, bring it to a ranger to sign.

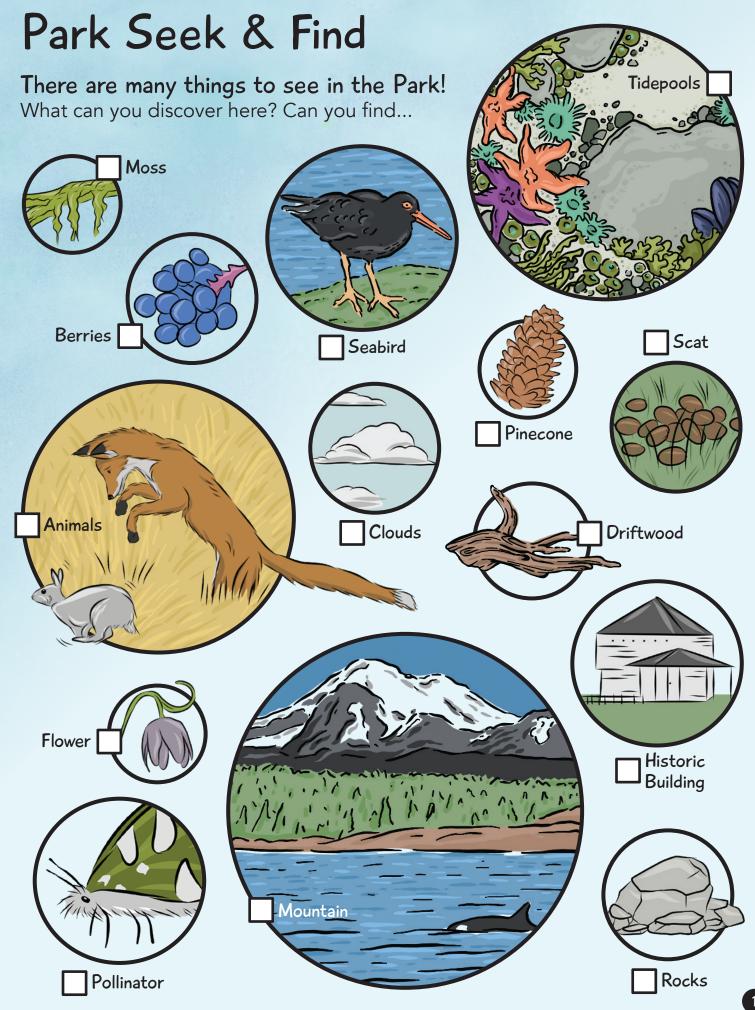
Or return by mail to receive your badge:

San Juan Island NHP - Junior Ranger PO Box 429, Friday Harbor, WA 98250



The Park is the homeland of Indigenous Coast Salish peoples.

Two hands raised up is a way to show appreciation among Coast Salish people. San Juan Island National Historical Park recognizes that the Park was created within the traditional homeland of local Coast Salish Tribes and First Nations. We extend our gratitude to Coast Salish people for sharing these special places preserved in the Park for future generations.



Tidepool Numbers

When the tide is low at Granny's Cove, discover creatures that call the intertidal zone home. After your adventure, complete these math problems.



Chiton

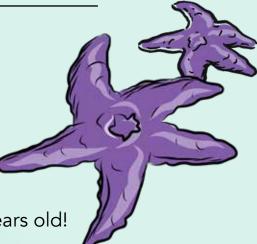
How many shell plates does this chiton have?



Sea Star

Did you know? Some sea stars can live up to

11 + 13 = ____ years old!



Sea Anenome

TENTACLE

Count the tentacles on the sea anenome!

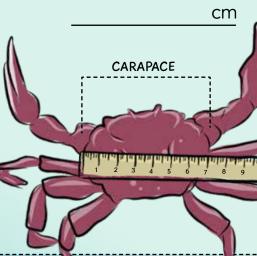
Durple Shore Crab

How many centimeters wide is this crab's carapace?



Mussels

A mussel opens its shell twice a day. How many times will it open in a week?



HIGH TIDE LEVEL

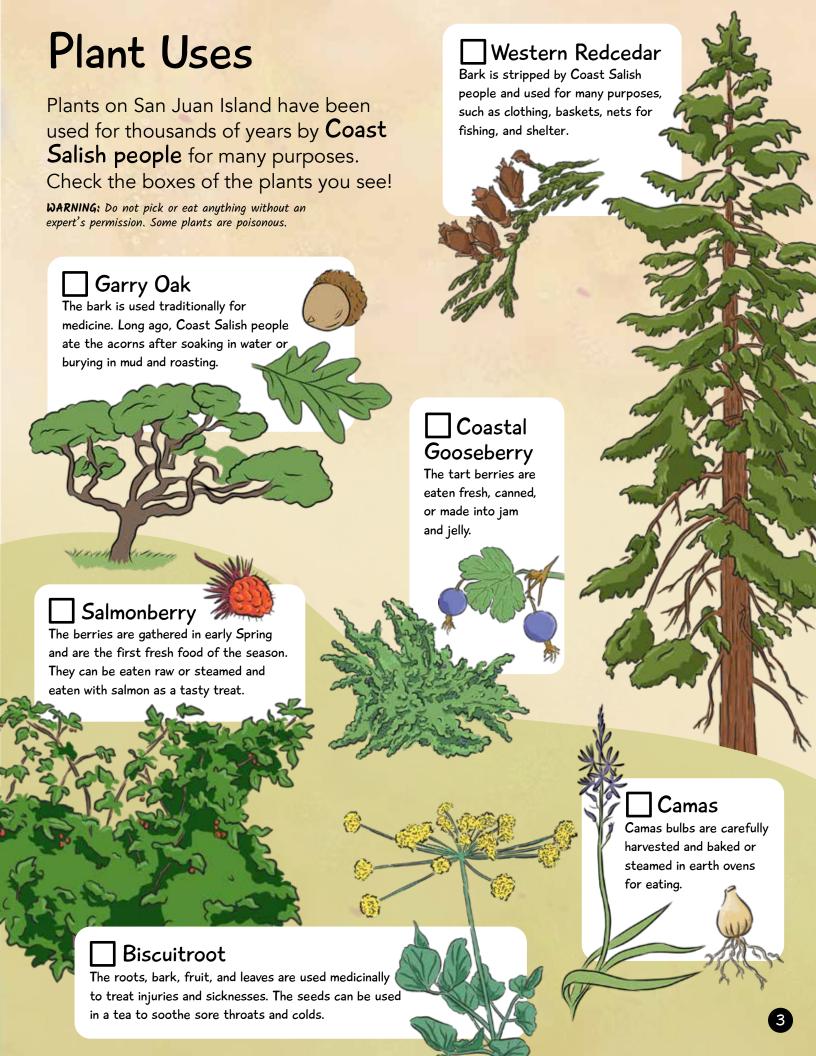
6 Tide Levels

High tide reaches 108 inches. Low tide is 84 inches less. How many inches high is low tide?

LOW TIDE LEVEL

What is the intertidal zone?

The area between the high and low tide marks is where these creatures live.



Unscramble the Pig War

The Pig War was a disagreement between the United States and Great Britain over San Juan Island. **What happened?**

Unscramble the facts along the timeline. Find the **hidden word** with the circled letters!

IN THE MID-1800'S

American and British settlers each thought the island belonged to their own

TYUCONR

1860

Both the United States and Britian sent military protection to the island, escalating tensions. The

SCANAEIRM

settled on the south side, and the British settled on the north side.

1859

A British pig was killed after it ate

TEPTAOSO

from an American farmer's vegetable garden. This started the dispute between the Americans and British regarding who owned the island.



1865

During years of sharing the island, neither side ever fired a shot. Instead, they became very

FERYNLID

with each other.

1871

Though called a war, the

DUSTIEP

never experienced armed conflict and was settled

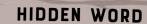
LPLFEYUEAC

1872

It was finally decided that the San Juan Islands were the

RITRYRETO

of the United States.



Homesteading Maze

Pioneers seeking a new life traveled to San Juan Island, where they could claim 160 acres if they built a home and farmed the land. The remains of **Sandwith Homestead**, a historic farm and subsistence orchard, are here in the Park.

Do you know why **animals** and **orchards** were important to a homestead? Follow the arrows through the maze and answer the questions to find out.



Adventure Through Ecosystems

Help a young river otter get back to its den...there is so much to see and do along the way! The ecosystems of San Juan Island National Historical Park include conifer forests, lagoons, prairies, dunes, and coastal bluffs, providing important habitat for plants and animals. Pacific madrone tree

HOW TO PLAY: Find a small item for each player to use as a game piece. Flip a coin to see how many spaces to move.

- **HEADS** move forward 2 spaces; **TAILS** move forward 1 space.
- Follow the directions of each space you land on.
- The first player to reach the otter's den wins!

Hide from a fox! STAY IN PLACE

Let's go! Chocolate

Chase a frog through the conifer forest **ADVANCE 2**

Western

Admire a

STAY IN PLACE

Avoid an invasive European green crab GO BACK 1

> Spot a loon in the ocean - you're getting close to home! **ADVANCE 1**

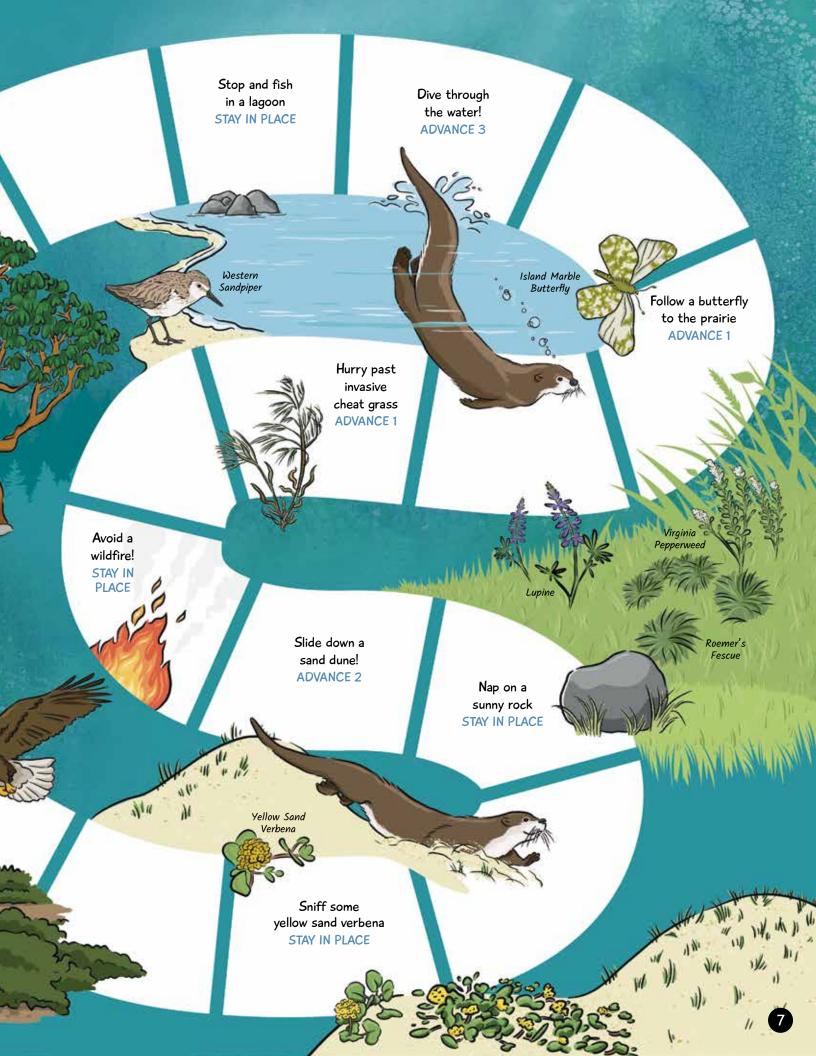
Gather some pebbles to crack open shellfish STAY IN PLACE

You made it home! FINISH

bald eagle in the coastal bluffs STAY IN PLACE

Hide from a

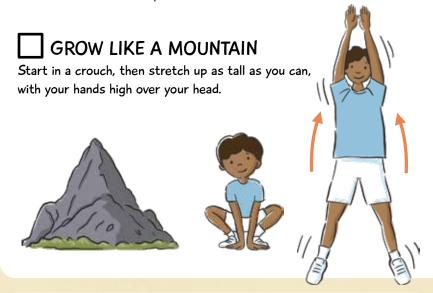
River otters live in and around the Salish Sea's coastlines, rivers, estuaries, and islands. They are an important part of the marine ecosystem. Although they are really cute, remember not to approach them!

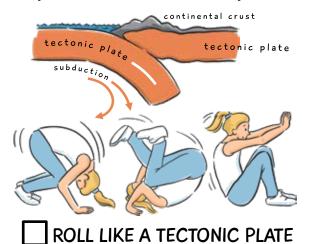


Jump Around Geology

How were the San Juan Islands formed? **Move your body** to shape the islands through geology. Remember to be safe while doing these activities!

The San Juan Islands began with the collision of **tectonic plates** - huge, moving pieces of the Earth's crust. As the plates ran into and rolled over each other, they made mountains and valleys.





Ice Age glaciers covered the islands 17,000 years ago, carving out canyons and grinding down mountains.



BE A GLACIER Slowly crawl, slip and and slide over high and low places, pressing down with all your weight.

Water and wind from coastal weather continues to shape the islands.

Do a somersault to roll under another plate.



SWEEP & WIGGLE your arms, like the winds and ocean tides carving the shoreline.

San Juan Island is located in a **rain shadow**, where most of the rain from the Pacific Ocean is blocked by the Olympic Mountains. Less rain can determine what plants and animals grow and survive on the island.



FALLING RAIN Wiggle your fingers to be raindrops, from high above your head all the way down to the ground. Which side of the mountain will you land on?

Nature Notes

Find a place to sit quietly outside.
Use your senses to explore your surroundings!



Be an Archeologist

Archeologists look closely at artifacts from a site to study how people lived in the past. Where an object is found can determine how old it is. San Juan Island National Historical Park has a rich archeological history, with each soil layer a different chapter of what happened long ago. Remember, if you see any artifacts or historical objects here in the Park, leave them in place!

Study the soil layers and match each time period to the list of artifacts below.



MODERN DAY TIME PERIOD (1966-Present)

PIG WAR TIME PERIOD (1859-1872)

HUDSON BAY TIME PERIOD (1853-1872)

PRE-CONTACT TIME PERIOD (Before 1790)

Glass beads, axe head, painted ceramic dish shards

Candy wrapper, can, comb, penny, plastic toy

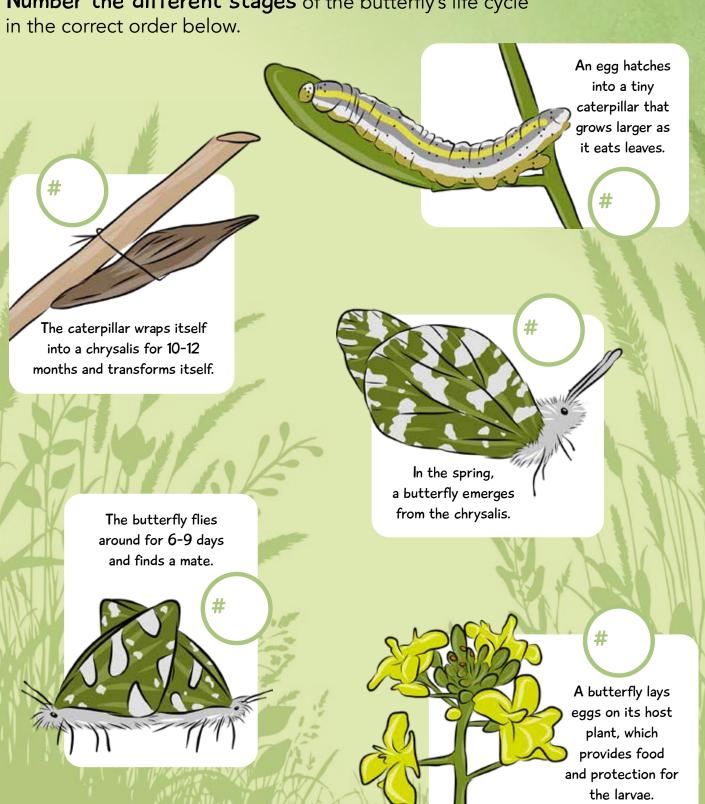
Horseshoe, minié balls, square nails, glass bottle, bone button

Stone net sinker, projectile points, bone needle, stone beads, bone awl

Island Marble Butterfly

The Island Marble Butterfly is an endangered species that only lives here on San Juan Island! Park Staff help protect them and their habitat.

Number the different stages of the butterfly's life cycle



Create your own canoe and paddle

Canoes were depended upon by Coast Salish people in the San Juan Islands for transportation, food gathering, and other needs for thousands of years. Traditionally made from hollowing out a trunk of a cedar tree, canoes range in size from small, one-person canoes to large canoes over 50 feet long.

Paddles are multipurpose tools, used for steering and moving the canoe across the water. They can also be used for hunting and protection. The size of the paddle is designed to fit the individual.



A large fishing canoe on the open ocean...a smaller river canoe... a canoe to carry your family...what will your canoe look like?

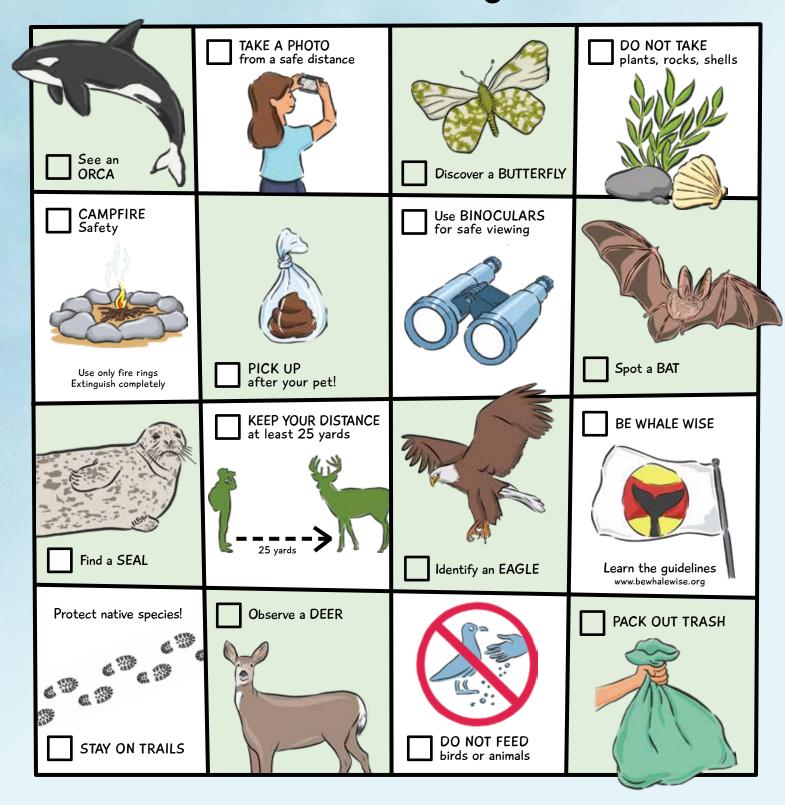




See these paddle designs at the Park's visitor center!



Wildlife Bingo



Witness the beauty of wildlife on San Juan Island! Being a responsible visitor can help the island remain wild for many years to come. As you enjoy the park, play Wildlife Bingo: mark the box for each animal you have safely observed or an activity you have done.

Get 4 in a row to win - up, down, across or diagonal!

