



GIRL SCOUTS OF NORTHERN CALIFORNIA

IN THE BAY

A GS NORCAL COUNCIL'S OWN BADGE PROGRAM

JUNIORS

TO ENCOURAGE AND INSPIRE GIRLS TO EXPLORE THE
WORLD OF SAN FRANCISCO BAY.



PURPOSE

There are plants and animals in every body of water. Some are big and some are very small. But no matter their size, they are connected to each other through a food chain. With this badge you have a chance to take a look at how food chains work and discover how you are connected to life in the San Francisco Bay!

REQUIREMENTS

Complete 6 of the following activities.

All members of Girl Scouts of the USA are eligible to earn the In the Bay Badge.

The In the Bay Badge is an official award and should be worn on the front of the vest or sash.

ORDER INFORMATION

To order the In the Bay Badge please visit www.girlscoutsnorcal.org and purchase the items online.

Please note that shipping and handling will be added to all online orders.

Members of Girl Scouts of Northern California will not be charged for shipping and handling if they use the GS NorCal Council's Own Order Form and have badges shipped to the closest GS NorCal store in their area for members to pick up.

ORDER PATCHES ONLINE AT WWW.GIRLSCOUTSNORCAL.ORG
FOR FURTHER INFORMATION ON PATCH PROGRAMS CONTACT PATCHES@GIRLSCOUTSNORCAL.ORG



Girl Scouts Save the Bay

IN THE BAY BADGE REQUIREMENTS FOR JUNIOR GIRL SCOUTS

Complete 6 of the following activities.

1. FOOD FRENZY

Food chains are a very important part of the health of San Francisco Bay. Look up the term “food chain” if it is unfamiliar to you. Food chains consist of both producers (organisms that produce food) and consumers (organisms that must eat to survive). Find some information about the plants and animals that live in the Bay. You may want to look at “The Bay Classroom” on Save The Bay’s website: <http://www.savesfbay.org>. Which organisms in the Bay are producers? Which are consumers? Which are predators? Which are prey? Find out the difference between a food chain and a food web. What would happen if one of the pieces of a food chain or food web disappeared?

2. WHAT’S FOR DINNER

Design a food web that includes animals from the San Francisco Bay. Be sure to include producers and consumers (both those that eat plants and those that eat animals). Most importantly, don’t forget the sun!

3. TERRIFIC TEETH

Teeth of different shapes and sizes have different purposes. Using a mirror, examine the types of teeth you have in your mouth. What is each used for? Collect four pictures of shark jaws or teeth. How are the teeth similar? How are they different? Can you tell what the sharks might eat by looking at their teeth? How are sharks’ teeth similar to knives?

4. FILTERING FOR FOOD

Some fish use teeth to eat. Others, like anchovies, filter their food with special body parts called gill rakers. To see how this works, fill a shallow container with water. Sprinkle spices or dried herbs such as red pepper flakes and parsley flakes onto the water. The spices represent plankton, which filter feeders consume. Using a comb, see if you can filter out the “plankton” from the water.

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5. COLOR CAMOUFLAGE

Animals use camouflage as a way to hide from predators. Camouflage is when the coloring of an animal's skin, fur or scales matches its habitat. Do this activity with a group. Choose one girl to be the predator, while the rest of the troop is the prey. Give each girl a 2"x2" piece of paper. Send the predator out of the room or where she cannot see what the others are doing. Using crayons or markers, the remaining girls color their paper to blend into something in the room. They then place their paper camouflaged, but in plain sight, in the room. Invite the predator back in to hunt for all the paper "prey." The predator has 3-5 minutes to find as many as she can. Which prey were the hardest to find? Which camouflaged the best?

6. HIDE 'N' SEEK

Visit an aquarium, such as Aquarium of the Bay, which has fishes from the San Francisco Bay. Find three different ways Bay animals camouflage themselves to hide from predators.

7. CREATURE CONNECTIONS

Every living and nonliving thing is connected in a special way in the San Francisco Bay. Visit an aquarium, such as Aquarium of the Bay, which has local marine animals. Look for creature connections. Find 3 ways that two living organisms are connected and 3 ways in which a live creature is connected to something that is not alive. You can also find pictures of creature connections and make a collage.

8. FOOD CHAIN DRAMA

Read a story about the food chain such as, *This is the Sea that Feeds Us* by Robert F. Baldwin. Illustrate the food chain in the story and create a play that teaches how important food chains are to people.

9. WATER WOMEN

Marine biologists and ecologists study the life in the water and the interactions between organisms and the environment. Find a woman who studies or teaches people about the San Francisco Bay. Come up with five to ten questions to ask her about her career.

10. FOOD WEBS FOR FUN

Create a game that teaches others about the San Francisco Bay food web. See how much you and your friend can learn about the Bay by playing your game!

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