



GIRL SCOUTS OF NORTHERN CALIFORNIA

RIPARIAN RESTORATION

A GS NORCAL COUNCIL'S OWN BADGE PROGRAM

CADETTES, SENIORS & AMBASSADORS

TO ENCOURAGE AND INSPIRE GIRLS TO EXPLORE THE
ASHONISHING WORLD OF RIPARIAN RESTORATION.



PURPOSE

Riparian zones can be damaged by floods, channelization, vegetation removal, and overgrazing by wildlife or livestock. It is important that these areas are restored to sustain the existing ecosystems that live in these areas. By completing the Riparian Restoration IP you will have a chance to explore the exciting world of Riparian Restoration!

REQUIREMENTS

To earn an Badge patch, you must complete at least seven activities as follows:

- Two Skill Builders activities
- One Technology activity
- One Service Project activity
- One Career Exploration activity
- Two activities from any category that you choose

All members of Girl Scouts are eligible to earn the Riparian Restoration Badge.

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

ORDER INFORMATION

To order the Riparian Restoration 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

RIPARIAN RESTORATION BADGE FOR CADETTE, SENIOR & AMBASSADOR GIRL SCOUTS

SKILL BUILDERS

1. In your local community find out about efforts to improve or restore watershed environments. Find out what is involved in at least one of the projects. What is the goal of the project? Who is involved? How long has the effort been underway? What are the results to date?
2. Go on a stream walk and make observations and assessments of your chosen creek/stream bed and watershed environment. Compare it to a healthy creek/stream. Use the Survey Data Sheets, which follow.
3. Visit a fish hatchery. Learn its function and purpose.
4. Visit a Riparian environment that has been restored to its natural environment. Find out what the goals of the restoration were, how long it took to restore, what was done, and if it has meet the original goal. Find out if the restoration is complete or if it is ongoing.
5. Find your chosen stream/creek on a USGS (United States Geological Survey) Topographical map. Locate the beginning and end. Define the longitude and latitude for your restoration area.
6. Spend a day exploring an estuary by kayak or canoe, with a guide, docent or teacher to learn about the natural history of the area.
7. Explore fly fishing. Learn about tying flies and try to tie one. Take a fly fishing lesson and practice casting a rod.

TECHNOLOGY

1. Over 6 months, periodically collect the following data on the riparian environment you have chosen: tree height, tree girth, tree condition, water temperature, water depth, condition of creek bed soil and photographs of area. Use a computerized program to track and report the results. Show graphs and photographs in your final report. Share the information with at least one other person interested in the results.
2. Search the web for information on identified trees in your riparian environment. Compile information for all trees identified, using the form which follows. Compare the information gathered to the environment. Discuss what you discovered. What trees would you plant in that environment .
3. Use EPA's web site, (www.epa.gov/surf) to find the watershed containing your chosen stream/creek. Make a three-dimensional model, map or diagram of it.
4. Using a digital camera, record your riparian restoration efforts for 6 months. Using the digital photos, design a computer presentation to tell the story of your efforts, include music and voice, if possible.

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RIPARIAN RESTORATION BADGE FOR CADETTE, SENIOR & AMBASSADOR GIRL SCOUTS CON'T.

SERVICE PROJECTS

1. Identify and mark the existing trees along the banks of your chosen creek/stream.
2. Organize a Storm Drain Stenciling Project in your area. Produce and organize distribution of door hangers for local household to make them aware of your project and to remind them that the storm drains dump directly into the local water body.
3. Invite a knowledgeable person or use field guidebooks to help you identify the plants and animals in your environment. Create a guide or display of plants and animals identified. Include and indicate those that may be missing now, but when present, would indicate a healthy environment.
4. Using a display you have created of your watershed or one that is already in existence, share your knowledge of watersheds with a Brownie or Junior Girl Scout troop/group or a grade school class. Show them the path of pollutants in environment.
5. Sponsor a Watershed Festival or a Water Drops Patch Program for a Brownie or Junior Girl Scout troop/group or a grade school class.
6. Build your own Aquifer Model and use it to in a display or presentation on groundwater and how pollutants threaten its purity.
7. Participate in a fish rescue project. Move endangered fish for the dry season, build a fish ladder, etc.
8. Become a docent for the marsh at Mare Island. Guide a tour for a group of a Brownie or Junior Girl Scout troop/group or a grade school class through the marsh.

CAREER EXPLORATION

1. List 10 careers that could be involved with riparian restoration. Meet with at least three people who work in the field to talk to you about their careers.
2. Network with at least two Government or private agencies that are interested in the riparian environment you have chosen to restore. Find out what their interest is in the location. Discuss how you can help each other in your efforts to improve or monitor the environment.

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