

Girl Scout Patch Program Guide

Water Conservation Patch

Sponsored by Coachella Valley Water District

This program has been created to teach local Girl Scout troops the importance of conserving one of nature's most essential resources: water. Girl Scouts will learn about their local water supply, how their community conserves water, and how to incorporate more water-efficient activities in their daily lives. Join CVWD in our efforts to save water for future generations and make conservation a way of life.

Requirements are divided into the following levels: Daisies, Brownies, Juniors, Cadettes, and Seniors & Ambassadors combined.

Daisies Patch Program Requirements:

To earn the Water Conservation Patch, Daisies must complete the following requirements:

1. Describe what it means to conserve water. Explain why conserving water is essential.
2. Visit our website cvwd.org/conservation or any other water conservation website (list in your response) and write down 3 interesting things you learned. Tell your troop leader/troop what you have learned.
3. List 5 different ways to conserve water inside or outside your home.
4. Research and write about where the Coachella Valley gets its drinking water.

In addition to the above requirements, ONE of the following tasks must be completed:

1. Draw a picture of yourself doing something to conserve water.
2. Draw the water cycle and label the following parts: Evaporation, Condensation, and Precipitation.
3. Print out and complete our Water Pledge (found at the end of this packet).
4. Schedule a CVWD presentation of "Why Should I Save Water?" for the troop. Please email us at education@cvwd.org.

Brownies Patch Program Requirements:

To earn the Water Conservation Patch, Brownies must complete the following requirements:

1. Describe what it means to conserve water. Explain why conserving water is important.
2. Visit our website cvwd.org/conservation or any other water conservation website (list in your response) and write down 3 interesting things you learned. Discuss with your troop leader/troop what you have learned.
3. List 5 different ways to conserve water inside or outside your home.
4. Research where the Coachella Valley gets its drinking water and its water for farms.

In addition to the above requirements, TWO of the following tasks must be completed:

1. Draw a picture of yourself doing something to conserve water.
2. Draw the water cycle and label the following parts: Evaporation, Condensation, and Precipitation.
3. Print out and complete our Water Pledge (found at the end of this packet).
4. Schedule a CVWD presentation of either "Our Farming Community" or "Where in the World is Our Water?" for the troop. Please email us at education@cvwd.org.

Juniors Patch Program Requirements:

To earn the Water Conservation Patch, Juniors must complete the following requirements:

1. Describe what it means to conserve water. Explain why conserving water is important.
2. Visit our website cvwd.org/conservation or any other water conservation website (list in your response) and write down 4 interesting things you learned. Discuss with your troop leader/troop what you have learned.
3. List 6 different ways to conserve water inside or outside your home.
4. Research where the Coachella Valley gets its drinking water and its water for farms.
5. Draw the water cycle and label the following parts: Evaporation, Condensation, Precipitation, Transpiration and Runoff. Include a brief definition of each of these terms.

In addition to the above requirements, THREE of the following tasks must be completed:

1. Draw a detailed picture of yourself doing something to conserve water. Write a brief caption or description for your drawing.
2. Time your showers every day for one week and keep a log of each shower's length. See if you can take a shower in 5 minutes or less.
3. Schedule a CVWD presentation of "Our Water Resources" for the troop. Please email us at education@cvwd.org.
4. Make a water cycle bracelet. Please email us at education@cvwd.org to schedule the pickup of a Water Cycle Bracelet Kit at our Palm Desert main office. Your troop leader may also pick up a set of Bracelet Kits for the group. You can also purchase your materials to make your bracelet. You will need each of the following:

- a. Pipe cleaner
- b. Pony Beads in each of the following colors:
 - i. Yellow
 - ii. Clear
 - iii. White
 - iv. Blue sparkle
 - v. Brown
 - vi. Green
 - vii. Dark blue
 - viii. Aqua/Turquoise

Create your bracelet by following the instructions (found at the end of this packet) and fill out the Activity Completion form (found at the end of this packet).

Cadettes Patch Program Requirements:

To earn the Water Conservation Patch, Cadettes must complete the following requirements:

1. Research where the Coachella Valley gets its water for three different uses: drinking, farms, and golf courses.
2. Visit our website cvwd.org/conservation or any other water conservation website (list in your response) and write down 5 interesting things you learned. Discuss with your troop leader/troop what you have learned.
3. List 7 different ways to conserve water inside or outside your home. Describe what you are currently doing to save water in your home.
4. Visit our website cvwd.org/ourpromise to learn about our different fields of service. Select the 3 services that you find most important. Describe them and explain why you think they are the most important.
5. Research and describe an aquifer. Why are aquifers important?

In addition to the above requirements, FOUR of the following tasks must be completed:

1. Describe in detail how the water cycle (hydrologic cycle) works using the following terms: Evaporation, Condensation, Precipitation, Transpiration, Infiltration, Percolation, and Runoff.
2. Use the following website to research water-efficient plants for our desert region: watersmartplants.com/cv. Select 3 plants that you find most interesting and include their names, water requirement, sun exposure, and at least 2 more facts about each.
3. Visit our website cvwd.org/askcvwd, watch 3 videos of your choice from our Ask CVWD Video Series and provide a short summary of each.
4. Complete a simple water science experiment. Describe how it works and explain why you chose this experiment. You can use the internet for resources and ideas, i.e. water cycle in a bag, how to demonstrate condensation and precipitation using household items, create a way to clean “dirty” water demonstrating the treatment process (use coffee grounds to make dirty water), or how aquifers work. Fill out the Activity Completion form (found at the end of this packet).
5. Schedule a CVWD presentation of “Groundwater Gold” for the troop. Please email us at education@cvwd.org.

Seniors/Ambassadors Patch Program Requirements:

To earn the Water Conservation Patch, Seniors/Ambassadors must complete the following requirements:

1. Research where the Coachella Valley gets its water for three different uses: drinking, farms, and golf courses.
2. Visit our website cvwd.org/rebates to learn about CVWD's various rebate programs that we offer our customers. Select 3 programs you find most interesting. Describe the programs and explain how these can help someone conserve water in or around their home.
3. List 7 different ways to conserve water inside or outside your home. Describe what you are currently doing to save water in your home.
4. Visit our website cvwd.org/ourpromise to learn about our different fields of service. Select the 3 services that you find most important. Describe them and explain why you think they are the most important.
5. Research and describe an aquifer. Why are aquifers important? Watch The Story of the Coachella Valley's Drinking Water which can be found on our website cvwd.org/MyWater to learn about how we replenish our aquifer. Include an explanation of replenishing our aquifers in your response.

In addition to the above requirements, FIVE of the following tasks must be completed:

1. Conduct research and in 2-3 paragraphs, describe the following:
 - a. How climate change has impacted Southern California's water resources
 - b. Why conservation is important in protecting those water resources
 - c. What is recycled water and how does this help us conserve water?
2. Use the following website to research water-efficient plants for our desert region: watersmartplants.com/cv. Select 5 plants that you find most interesting and include their names, water requirement, sun exposure, and at least 2 more facts about each.
3. Visit our website cvwd.org/askcvwd, watch 4 videos of your choice from our Ask CVWD Video Series and provide a short summary of each.
4. Complete a simple water science experiment. Describe how it works and explain why you chose this experiment. You can use the internet for resources and ideas, i.e. water cycle in a bag, how to demonstrate condensation and precipitation using household items, create a way to clean "dirty" water demonstrating the treatment process (use coffee grounds to make dirty water), or how aquifers work. Fill out the Activity Completion form (found at the end of this packet).
5. Create a PSA (Public Service Announcement) about water conservation. This can be a poster, social media post (does not actually have to be posted), video or other creative outlet of your choice. Fill out the Activity Completion form (found at the end of this packet).
6. Schedule a CVWD presentation of "Coachella Valley's Water Resources" for the troop. Please email us at education@cvwd.org.

Activity Completion Form

Fill out the form below when you have completed one of the tasks below.

Name:

Girl Scout Level:

Activity Completed:

- Water Cycle Bracelet (Juniors only)
- Water Science Experiment (Cadettes or Seniors/Ambassadors)
- PSA (Seniors/Ambassadors only)

Signature:
