



## **Girl Scout Patch Program**

### **“Water Conservation Patch”**

Sponsored by Rowland Water District

Rowland Water District established the Water Conservation Patch program in the summer of 2018. The program is designed to teach our local Girl Scouts about the importance of their water supply, where it comes from and how to conserve the natural resource. With this program, we intend for Girl Scouts to take care of our precious resource and how to make conservation a way of life.

The requirements are divided into Daisies, Brownies, Juniors, Cadettes and Senior Girl Scout levels:

#### **Daisies Patch Program Requirements:**

To earn the Daisy Water Conservation Patch, the following requirements must be completed:

1. Describe what it means to you to conserve something. How do you conserve water?
2. Visit our website [www.rowlandwater.com](http://www.rowlandwater.com) or any water conservation website (list website in your response) and discuss/share with your group or parents what you learned.
3. Be able to list at least 5 ways to conserve water in and around your home.
4. Research where Rowland Water District’s water comes from and how it gets to your home or school.

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

1. Draw a picture of yourself demonstrating a way to conserve water.
2. Complete our pledge (located in the back of this packet) and read it out loud to your group, parents or classmates.
3. Draw the water cycle and identify these parts: Evaporation, Condensation and Precipitation.
4. Look around your home and identify a place where you can be more water-wise and save more water.

### **Brownies Patch Program Requirements:**

To earn the Brownie Water Conservation Patch, the following requirements must be completed:

5. Describe what it means to you to conserve something. How do you conserve water?
6. Visit our website [www.rowlandwater.com](http://www.rowlandwater.com) or any water conservation website (list website in your response) and discuss/share with your group or parents what you learned.
7. Be able to list at least 5 ways to conserve water in and around your home.
8. Research where Rowland Water District's water comes from and how it gets to your home or school.

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

5. Draw a picture of yourself demonstrating a way to conserve water.
6. Complete our pledge (located in the back of this packet) and read it out loud to your group, parents or classmates.
7. Draw the water cycle and identify these parts: Evaporation, Condensation and Precipitation.
8. Look around your home and identify a place where you can be more water-wise and save more water.

### **Junior Patch Program Requirements:**

To earn the Junior Water Conservation Patch, the following requirements must be completed:

1. Describe what it means to conserve something. How do you conserve water?
2. Visit our website [www.rowlandwater.com](http://www.rowlandwater.com) or any water conservation website (list website in your response) and discuss/share with your group or parents what you learned.
3. Be able to list at least 6 ways to conserve water in and around your home.
4. Research where Rowland Water District's water comes from and how it gets to your home or school.
5. Visit our office to receive dye tablets to check for a leaky toilet at your home (have your parents help you with this part). While visiting our office, take a picture in front of the Rowland Water District sign.

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

1. Draw a picture of yourself performing a way to conserve water.
2. Complete our pledge (located in the back of this packet) and read it out loud to your group, parents or classmates.
3. Come into the Rowland Water District office and ask for the water cycle bracelet activity. Take the activity home and complete it. Once you have completed the bracelet, write in detail how the water cycle works using the following terms: Evaporation, Condensation, Precipitation, Transpiration and runoff.
4. Look around your home and identify a place where you can be more water-wise and save more water.

## **Cadette Patch Program Requirements:**

To earn the Cadette Water Conservation Patch, the following requirements must be completed:

1. Research Rowland Water District's water supply. Explain how the water gets to your home or school.
2. Visit our website [www.rowlandwater.com](http://www.rowlandwater.com) or any water conservation website (list website in your response) and discuss/share with your group or parents what you learned.
3. Describe and label on the map (located in the back of this packet) the important waterways and aqueducts that supply water to Southern California.
4. Visit our office to receive dye tables to check for a leaky toilet at your home (have your parents help you with this part). While visiting our office, take a picture in front of the Rowland Water District sign.
5. List 10 ways to conserve water in and around your home. Describe how you are saving water at home.

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

1. Write in detail how the water cycle (hydrologic cycle) works using the following terms: Evaporation, Condensation, Precipitation, Transpiration and runoff.
2. Explain the drinking water (potable) treatment process using the following terms: Coagulation, Sedimentation, Filtration and Disinfection. (NOTE: Group leaders can contact us, and we can set up a Three Valleys Municipal Water District treatment plant tour for your troop).
3. How many miles of pipeline does Rowland Water have? (Potable and Recycled Water)
4. Describe what recycled water is. How can you identify if recycled water is at a specific location?
5. Complete a simple water related experiment and describe how it works. Take pictures of the final product 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 or how aquifers work (the dirty water can be coffee grounds mixed in the water).

## Senior Patch Program Requirements:

To earn the Cadette Water Conservation Patch, the following requirements must be completed:

1. Research Rowland Water District's water supply. Explain how the water gets to your home or school.
2. Explain the drinking water (potable) treatment process using the following terms: Coagulation, Sedimentation, Filtration and Disinfection. (NOTE: Group leaders can contact us, and we can set up a Three Valleys Municipal Water District treatment plant tour)
3. Describe and label on the map (located in the back of this packet) the important water ways and aqueducts that supply Southern California water. In addition, label the major reservoirs of California.
4. List 10 ways to conserve water in and around your home. Describe how you are saving water at home.
5. Come up with a catchy phrase that Rowland Water can use with our conservation messaging in our community.

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

1. Discuss in a few paragraphs why conservation is important, especially in Southern California.
2. Discuss in a few paragraphs what clean water means to you.
3. Describe what recycled water is. How can you identify if Recycled Water is at a specific location?
4. Research California Native Plants (drought tolerant plants) and where they come from. Discuss which three plants you think would adapt the best at your home and provide the Botanical and Common names of the plants you chose.
5. Complete a simple water related experiment and describe how it works. Take pictures of the final product 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 or how aquifers work (the dirty water can be coffee grounds mixed in the water).
6. Create a PSA (Public Service Announcement) about water conservation.

### Internet Resources

- Rowland Water District- [www.rowlandwater.com](http://www.rowlandwater.com)
  - Three Valleys Municipal Water District- [www.threevalleys.com](http://www.threevalleys.com)
  - Be Water Wise- [www.bewaterwise.com](http://www.bewaterwise.com)
  - Metropolitan Water District of Southern California- [www.mwdh2o.com/](http://www.mwdh2o.com/)
  - Sanitation Districts of Los Angeles County- [www.lacsd.org](http://www.lacsd.org)
  - The Water Cycle- <https://water.usgs.gov/edu/watercycle-kids.html>
  - Save our Water- [www.saveourwater.com](http://www.saveourwater.com)
  - Water Saver Home- [www.h2ouse.org](http://www.h2ouse.org)
- \*\* For more resources visit our website's resources page- [www.rowlandwater.com/links](http://www.rowlandwater.com/links)**

### Resources/Materials

For additional materials to complete the requirements/tasks of the Water Conservation Patch Program, please email Brittne Van De Car at [bvandecar@rowlandwater.com](mailto:bvandecar@rowlandwater.com) with the following information:

- Name:
- Organization (include troop #):
- Level of Group:
- Number of Members in Group:
- Phone Number:
- Email:
- Address:

## GIRL SCOUT PATCH PROGRAM LOG SHEET

Use this log to keep track of the completion of requirements and to provide Rowland Water District with a record of recipients. There are FIVE requirements for Daisies and Brownies, EIGHT for Junior Girl Scouts, NINE for Cadettes and TEN for Senior Girl Scouts. When completed, send this form to the address below. Please allow two weeks between the time you send in the request for patches and the date you wish to distribute them. Please write legibly as certificates with names will also be included.

NAME - Please Print Clearly	Patch Requirements (✓)										Date Completed
	1	2	3	4	5	6	7	8	9	10	
1.											
2.											
3.											
4.											
5.											
6.											
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12.											
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14.											
15.											

**PLEASE INCLUDE THE FOLLOWING INFORMATION WHEN RETURNING THIS SHEET:**

Group Leader's Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Email: \_\_\_\_\_

Address: \_\_\_\_\_

**Mail To:**  
**Rowland Water District: Patch Program**  
**ATTN: Brittnie Van De Car**  
**3021 Fullerton Road**  
**Rowland Heights, CA 91748**

Brownies and Juniors: Use the pledge below to complete your task or requirement.

## Water Drop Pledge

I promise to do my best to conserve our Earth's natural resources. I also promise to help others by telling them about ways to save water and protect our earth and I will do my best to be an environmentally responsible citizen.

School: \_\_\_\_\_

Grade: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Student's First and Last Name

\*Parent/Guardian signature consents to the inclusion of their child's name as a 'Star Water Saver' on the Rowland Water District website.

\_\_\_\_\_  
Parent/Guardian Signature

Date: \_\_\_\_\_



Use this picture as your outline to describe and label the important waterways and aqueducts that supply water to Southern California. For Seniors, complete the labeling of waterways and aqueducts and then label the major reservoirs of California.

