



Patch Program



Girl Scout Brownie Patch Program

Accompanies WOW! Wonders of Water Brownie Journey

Kit Contains

- ◇ Patch Program Directions
- ◇ Clean Water Science Kit
- ◇ PSA Props





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Learning Objectives

Girls will be able to identify three characteristics of a green building.

National Leadership Outcomes

Discover

Girls Develop Positive Values.

Girls recognize that their choices of actions or words have an effect on others and the environment.

Connect

Girls Promote Cooperation and Team Building, Girls begin to learn how to work well with others.

Girls feel connected to their communities, locally and globally.

Girls are better able to identify people and places that make up their community and understand their various contributions.

Take Action

Girls educate and inspire others to act.

Come Prepared

Please read through the entire patch program before coming to Girl Scouts of Greater Atlanta Service Center in Mableton. Your girls may want to bring props for their video. Items about water or water conservation are suggested.



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Activities During the Tour

Complete All Activities

- ◇ Ask girls to make a particular sign, like thumbs up, whenever the tour mentions anything about water, its use or conservation.
- ◇ At the end of the tour, ask girls to identify three things that make our building a “green” one. No! It isn’t the paint color. Responses may vary.

Follow the iPod Tour
Look for this symbol



Reflection Questions

Q: Which parts of the Girl Scout Law are we living by when we conserve water?

A: Use resources wisely, Make the world a better place, Responsible for what I say and do, Respect myself and others, Considerate and caring

Q: Why is conserving water an important part of a “green” building?

A: Answers may vary



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Activities After the Tour

Complete TWO Activities

- ◇ Explain how the bioswale works using the water filtration experiment in the Clean Water Science Kit. Complete Experiment 1– Filtering, located on page 2 of the manual.
- ◇ Ask the following comprehension questions:
 - Q: If the typical family of four uses about 400 gallons of water daily, and our rain barrel holds about 50 gallons, how many full rain barrels would a family of 4 need for one day of water?
A: 8 rain barrels
 - Q: Can you imagine how much water this is? Can you figure out how many rain barrels one person uses per day?
A: 2 rain barrels=100 gal
 - Q: How is all of this water is used?
A: bathing, toothbrushing, handwashing, toilet flushing, dishwashing, washing clothes, watering grass and plants, etc.
 - Q: How can they conserve water at home?
A: Answers may vary.
- ◇ The tour mentions our building has a 36% water savings. **What does this mean?** It means if our building were compared to a normal building of similar size that has not made any efforts to conserve water, ours uses that much less. If the regular building used 100 barrels of water ours would only use 64 barrels.
 - Q: Can you identify what you learned from the video tour about how our building does this?
A: Special sink faucets, special toilet flushers, no sprinklers, etc.
- ◇ The tour mentions a 1 million gallon per year savings from our landscaping being drought tolerant plants. If the average cost of a gallon of water is 1¢, how much money does this save every year? (a million cents or \$10,000= 1000000x.01)
- ◇ Have the girls make a short (30-90 second) public service announcement about water conservation and why it is important. Record it on the iPod. Please make sure you include your troop number/group name, service unit name, and the first names and last initial only of those involved in the video production, and the date.
- ◇ Conduct any of the other experiments in the Clean Water Science Kit.



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Optional Extension Activities

For girls who just can't do enough...

www.usgbcga.org information about green buildings and practices

http://www.epa.gov/safewater/kids/flash/flash_watercycle.html online water cycle demo

http://water.epa.gov/learn/resources/esms/patch/upload/May_1_WDPP.pdf Water Drop Patch

<http://www.epa.gov/waterscience/beach/kids/games.html> Ty Turtle protects our beaches info and games

http://water.epa.gov/learn/kids/drinkingwater/upload/activity_grades_k-3_activitybook.pdf page 5 water treatment diagram

<http://www.epa.gov/watersense/kids/games.html> Pac-Man type game with water saving questions

<http://www.epa.gov/waterscience/fish/kids/index.html> teaches children and mom & dad about fish advisories through interactive stories and games

http://seawifs.gsfc.nasa.gov/OCEAN_PLANET/HTML/ocean_planet_overview.html I particularly like the Oceans in Peril Exhibit, this is more interesting for adults than children, but it has some valuable information.

<http://www.drinktap.org/kidsdnn/Kids/tabid/134/Default.aspx?v=3> great informational videos geared toward kids

http://www.h2ouniversity.org/html/k2_games_activities.html

<http://www.h2ouniversity.org/cfml/video/index.cfml?cid=81&vid=442> song

http://savingwater.org/kids/k-3_activities.html

