

**Make your
space an
earth-saving
place!**



Household Elf

It's great to have a clean home, and even better if it's a clean, green home! In this badge, pick up some new household habits to help your family save energy, save water, and save the planet.

Steps

1. Save energy
2. Save water
3. Go natural
4. Reuse or recycle
5. Clear the air

Purpose

When I've earned this badge, I'll know how to make my home clean and green.

Make a Draft Stopper

- 1 Start with a pair of
tights or panty hose.
Cut the top and feet
off the legs so you have
two separate tubes.
- 2 Tie one end closed
tightly with ribbon.
- 3 Pour dried beans
or dried corn into
the open hole. You
will need about
five pounds of
beans or corn.
- 4 Tie off the other end.
Place it along the
bottom of a door or
along a windowsill
to keep warm air in
and cold air out.

STEP 1 Save energy

When you sleep, you're saving your energy so you can play more when you wake up. Saving energy in your house is important, too. That helps make sure Earth doesn't run out of the energy that makes electricity. It costs less for your family, too.

CHOICES – DO ONE:


- ☐ **Be a light-saver.** For one week, make sure lights are turned off in rooms no one is using. Are there other energy-users you can switch off, too?

OR

- ☐ **Go on an energy scavenger hunt.** With your family, look for appliances and electronics that are plugged in when they're not in use. Some of these things use energy, called "standby power," even if they're not turned on! Together, make a plan to conserve energy for one week.

FOR MORE FUN: Ask a staff member at a home-improvement store how power strips can help you save standby power.

OR

-  **Find out about three ways to use less energy.** Then make a plan with your family to be more efficient energy users. (Being efficient means you're careful to use only what you really need.) You might replace five regular lightbulbs with energy-saving fluorescent bulbs, clean the lint filter after every dryer load so drying takes less energy, or wash with cold water instead of using energy to heat water.

Every step has three choices. Do ONE choice to complete each step.
Inspired?
Do more!

FUN FACT



Your freezer uses less energy when it's full. This is because frozen things help keep each other cold. You don't have to stuff it full of frozen food—water stored in jugs and food storage containers will work, too!

STEP 2 Save water

One of the planet's most important resources is water. Everyone needs to protect it, or one day we could run out! Try one of these ways to save water at your own home.

CHOICES – DO ONE:

- ☐ **Use less water by taking shorter baths or showers for one week.** Did you know that for every minute you shower, you use about five gallons of water? That means if you take a 10-minute shower, you've used 50 gallons of water. And a bathtub holds 60 gallons of water! Try to trim your shower time to save water. If you take a bath, fill the tub only half full.

FOR MORE FUN: Shower like Cousin Cloudberry for some water-saving fun. ►

OR

- ☐ **Turn off the faucet when brushing your teeth.** An average running faucet uses about two to three gallons per minute. If you left the faucet on for five minutes while you brushed your teeth, that means you wasted nearly 15 gallons of water! Make a sign to put next to the sink to remind your family to do the same.



OR

- ☐ **Find three ways to save water.** Then team up with your family to make a water-saving plan. Try following the plan for two weeks. Need some ideas to start? Try running the dishwasher only when it's full, or when washing dishes, don't let the water run. What other ideas do you have?



Sing in the Shower like Cousin Cloudberry!

Cousin Cloudberry loves singing in the shower. To save water, she sings a short-shower tune. You can, too. Here's how:

Time how long it takes you to sing your favorite song. Then choose a water-saving length for your shower, and sing for just that amount of time. For example, Cousin Cloudberry loves the Brownie Smile Song. It takes her one minute to sing, and she wants to take a three-minute shower. So she sings the song three times, then turns off the water!

When you look at
your home with
Brownie eyes,

Be prepared for a
big surprise!

You will see much
more as you open
the door,

And do things
there you never
did before.

—Brownie Girl Scout
Handbook, 1963

FANTASTIC FACT

Four to five *trillion*
plastic bags are used
worldwide every year.

One family of four
goes through about
1,500 a year. Yikes!

STEP 3 Go natural

Using natural products, or things that are made with ingredients found in nature, is better for our earth. Instead of a chemical or a plastic being created, you can reuse something you already have. Try one of these natural solutions to a household problem.

CHOICES – DO ONE:

- ☐ **Make a natural cleaner.** Check the box on page 5 to find out how to make one for tiles or glass. Then use it to clean every week for a month. Be even greener by using a cloth or an old T-shirt instead of a paper towel!

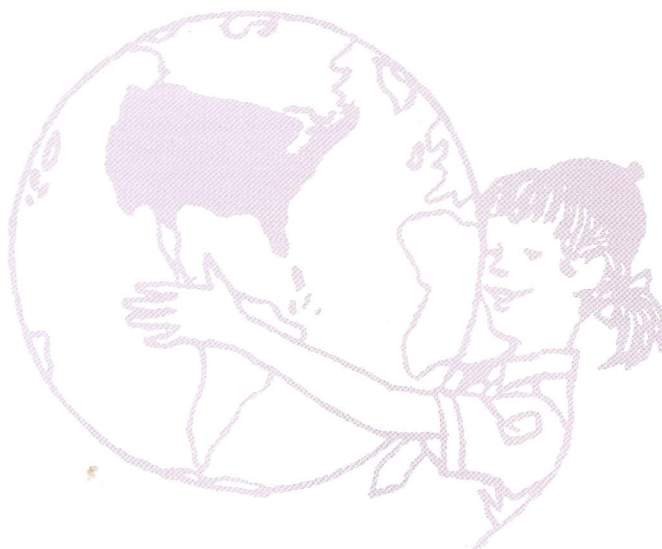
OR

- ☐ **Make a natural spray to use on plants, flowers, or vegetables.** Look for directions in the sidebar. Then use the spray for two weeks and write down what you see. Did the spray help scare away bugs that hurt garden plants?

OR

- ☐ **Take your own reusable bag to the grocery store or when helping run errands.** For one month, count how many times you used your bag—that's how many plastic ones you kept out of the environment!

FOR MORE FUN: Decorate a cloth bag for you and your family to use when shopping.






Homemade Sprays

You can make your own sprays at home with simple ingredients. They cost less than those from the store and don't use any harmful chemicals.



Glass Cleaner

Put **1 cup of water** into a plastic spray bottle. Add **1 cup rubbing (isopropyl) alcohol** and **1 tablespoon of white vinegar**. Use the mixture to make windows and mirrors sparkle!



FUN FACT

White vinegar dissolves dirt, soap scum, and hard-water deposits from smooth surfaces. It's also a natural deodorizer—it will absorb odors instead of covering them with perfume-y smells. (The vinegar smell disappears when it dries, too.)



Gardening Spray

Put **1 cup dish soap**, **1 cup vegetable oil**, **¼ cup baking soda**, **½ cup skim milk**, and **1 tablespoon of water** into a plastic spray bottle. The mixture includes things that insects don't like, so spray on plants to safely keep bugs away. Be sure to test one or two leaves first to make sure the mixture will not bother the plant. Because the milk will sour, pour out the mixture and clean the bottle when you are finished.



Tile Cleaner

Pour **1 cup of white vinegar** and **1 cup of water** into a plastic spray bottle and shake. Use the mixture to safely clean kitchen and bathroom counters and tiles.



The Lifetime of Trash

How long does it take garbage to break down in the environment?

Newspaper: 6 weeks

Apple core: 2 months

Plastic bag: 10–20 years

Aluminum can: 80–200 years

Glass bottle: 1 million years

Most plastic bottles: Never

STEP 4 Reuse or recycle

Recycling is a great way to help the environment—and reusing things is great, too. When you send bottles, paper, and plastic away to the recycling plant, it takes energy to turn them into new products, but when you reuse something, you're keeping it out of the trash system altogether!

CHOICES – DO ONE:

- ☐ **How much trash can you stash?** Weigh your trash for a week. Then see how many pounds you can reduce in your trash. Make containers for different types of recycling, and help family members use them. Is there anything in your recycling you could reuse, such as old jars or plastic bags?

FOR MORE FUN: Find out if your community has a composting plan, or if your family or a neighbor could use your compost. If so, make a container for compost, too!

OR

- ☐ **Recycle plastic bags.** Collect 20 leftover plastic bags and take them back to a store that recycles them. Recycled plastic bags can be used to make plastic lumber for decks or swing sets and polar fleece for vests and coats!

FOR MORE FUN: Set up a place at school where other kids can bring in plastic bags. With a parent, take what you collect for a month to a store for recycling.

OR


- ☐ **Donate toys and clothes.** With your family, go through your toys and clothes and set aside what you don't play with or wear anymore. (Make sure anything in this pile is in good enough shape that someone else could use it.) Then go online together and find a place that accepts donations. Bag up your things and drop them off!

The air we breathe is important to how healthy we feel. The air inside your home can contain dust or chemicals that can cause you to sneeze or make it hard to breathe. Clean up the air in your home with one of these activities.

 **Clean or replace an air filter.** Find out how filters help the air, then with an adult check the filters at your home. (If you have a central heating and air-conditioning unit, the filters might be in vents in the wall.) If they need cleaning or replacing, team up to follow the instructions to help do it.

☐ **Discover natural filters.** Put a plant or other natural air filter in your favorite room. For two weeks, notice if you can tell a difference in the air, and write down how you feel.

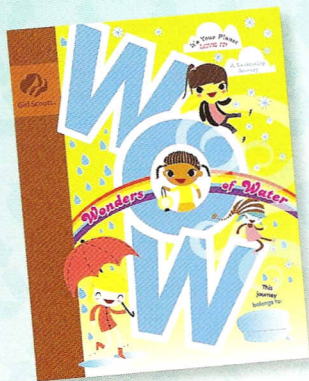
OR

-  **Make a natural air freshener.** Work with an adult to make your own fresh scent for the house. Team up to boil 2 quarts of distilled water with 2 tablespoons of white vinegar. Add a few drops of scented oil or fruit and simmer for a few more minutes. One fresh scent to try is two sliced lemons with 1 tablespoon vanilla extract.

One of the largest landfills in the world is Fresh Kills Landfill, where New York City trash was dumped for more than 50 years. It can actually be seen from space! Now it's no longer in use, so it is being turned into a park. Fresh Kills Park will be three times the size of New York's Central Park. It will have trails for horseback riding, outdoor cafes, and ponds for canoeing.

A **LANDFILL** is an area where large amounts of trash are placed. The trash is usually covered with dirt.

COMPOST is a material made from broken-down plants and food scraps. Farmers and gardeners mix it with dirt to help new plants grow.



Add the Badge to Your Journey

When you do step 2, trade ideas with your Brownie friends about all the ways you can love water.

Maybe you will even come up with an idea for a Save Water project to do together!

Now that I've earned this badge, I can give service by:

- Helping make my Brownie meeting place clean and green
- Setting up recycling bins at school
- Sharing my natural cleaners with friends and neighbors



I'm inspired to: