

Get Wise and Conserve Florida! A Student Resource Book

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Electric & Natural Gas



Electra

Hi, I'm Electra! I am an expert on electric and natural gas. My friends, Deputy Drip and Tammy Talkalot, and I are here to help you understand the importance of conservation. Tammy Talkalot is the telecommunications expert, and Deputy Drip is the expert in water. We help the Florida Public Service Commission (PSC) by reaching out to you, our leaders or "movers and shakers" for the future.

My friends and I have developed this student resource book specifically for you.

We hope that you will enjoy it!

The information, activities, and conservation tips and ideas included in this publication can help you and your family save money on energy bills and at the same time help protect the environment. We also have information on area codes and the history of telephone service.

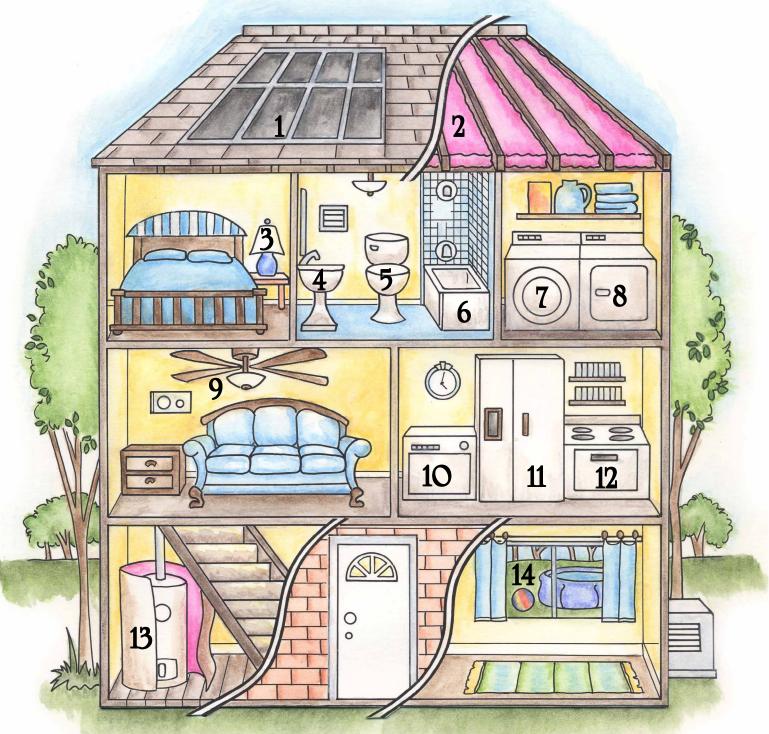


Cultivating habits that lower utility bills is a family affair. From the youngest to the eldest member of the home, everyone can learn to be energy efficient.

Lowering the utility bill can be fun! Make a game of it. Post an Energy Efficiency Chart on the refrigerator and keep track of the families' energy savings activities. The family member who accomplishes the most to conserve each week receives a treat. Use the money saved from lowering a utility bill each month to sponsor "Family Night" and rent a movie, buy a special dessert, or any other activity the family might enjoy doing together. You can also foster a closer relationship with loved ones when you make energy conservation a family affair. Look on the next page for energy conservation tips.

Conservation House

FLORIDA PUBLIC SERVICE COMMISSION



- 1. Solar Panel Use solar energy.
- 2. **Attic/Insulation** Make sure you have sufficient insulation.
- 3. Lamp Use fluorescent light bulbs.
- 4. Faucet Don't leave water running.
- 5. **Toilet** Replace older toilets with low-flow toilets.
- 6. Shower Showers use less water than baths.
- 7. Washer Wash full loads

- 8. Dryer Clean the lint from the filter after every load.
- 9. Ceiling Fan Fans improve airflow.
- 10. Dishwasher Be sure the dishwasher is full.
- 11. **Refrigerator** Don't keep your refrigerator too cold.
- 12. Stove Use tight-fitting covers on pots and pans.
- 13. Water Heater Insulate your water heater.
- 14. Window Weatherstrip your windows.

Can you guess the answers to these Energy Riddles?

- 1. Why did the foolish gardener plant a light bulb?
- 2. How do energy conscious people feel about wind power?
- 3. How do we know that wind power is so popular?
- 4. How did Benjamin Franklin feel when he discovered electricity?
- 5. What does the nuclear scientist do in his spare time?
- 6. How is energy conservation like a baseball team?
- 7. What is burned by cars driven late at night?
- 8. How are renewable power plants like people who enjoy going to the beach?
- 9. In which part of the jail are energy criminals kept?
- 10. What is a renewable energy source that is used every day, especially when you're at school?
- 11. What did the solar cells say to their cloudy boss?
- 12. How many energy students does it take to change a light bulb?

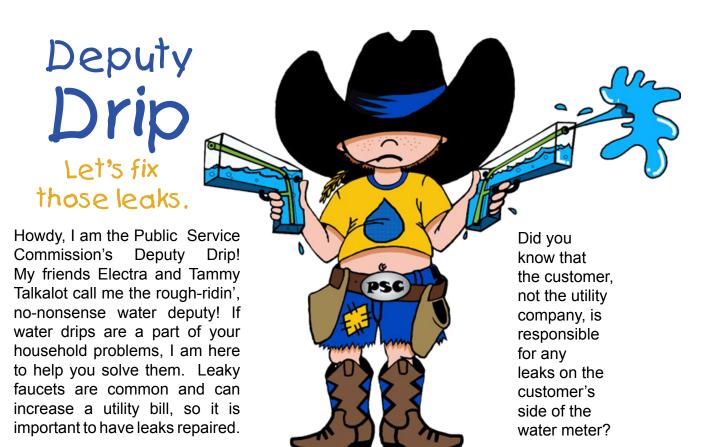
rarely need to be replaced.

1. He wanted to grow a power plant. 2. They're blown away. 3. Because it has so many fans. 4. He was shocked. 5. Goes fission. 6. They can both use a switch hitter. 7. Midnight oil. 8. They all like sun, wind, and water. 9. The fuel cells. 10. Brain power. 11. We need rays. 12. None! They're smart enough to use energy-efficient compact fluorescent bulbs which

∀µ2M6k2

Source: Energy Information Administration

Water



You can help conserve water by:

- Not letting the water run unnecessarily while you brush your teeth.
- Installing low-flow aerators on all water faucets.
- Taking shorter showers and shallow baths.
- Repairing dripping faucets by replacing washers.
- Cleaning driveways and sidewalks with a broom; using a hose can waste hundreds of gallons of water!
- Washing only full loads in your automatic dishwashers and washing machines.
- Rinsing your dishes in a sink full of water or by pouring water over them all at once rather than leaving the faucet running.
- Watering your landscape only when needed.
- Installing a toilet dam or displacement device such as a bag, bottle, or brick to cut down on the amount of water needed for each flush.
- Using mulch in plant beds to control weeds and retain moisture.



Save Money by Conserving Water

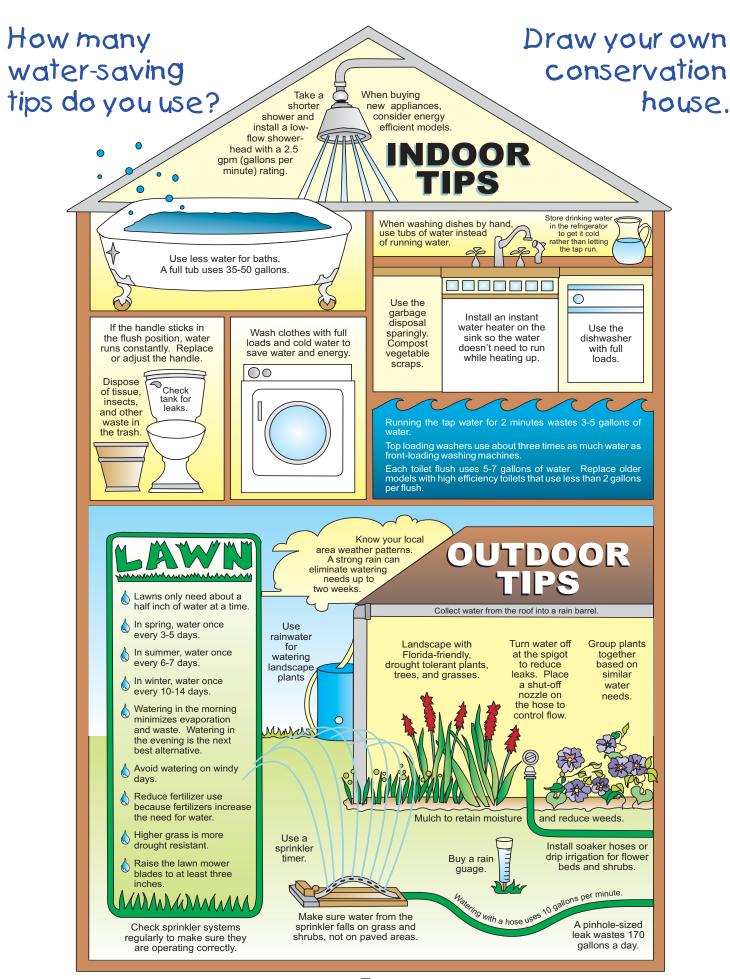
Only 2.5 percent of the world's water is fresh water, and less than 1 percent of the fresh water is usable. Florida's growing population is putting greater stress on this essential and limited resource.

Using water wisely means saving money on water bills and protecting the water supply for future generations.

Here are some Florida water facts - share them with your family and friends!

- The average Floridian uses about 175 gallons of water per day (compared to the national average of 110 gallons per day).
- About 90 percent of Florida's 21.5 million residents get their drinking water from public supplies.
- About 62 percent of the water used comes from the Florida aquifer system; 17 percent comes from the Biscayne aquifer.
- Surface water sources include lakes, rivers, and the managed canal systems, with a total water area of 4,424 square miles.

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Telecommunications



Tammy Talkalot

Hi, I'm Tammy Talkalot, and this is my dog, Bo. As Electra mentioned, I am the expert on telecommunications. My friends at the PSC wanted me to share a few ideas on telephone service. Some of you may already know that on March 10, 1876, Alexander Graham Bell invented the telephone. And, in 1877, Florida's first telephones became available in Pensacola and Jacksonville.

Did you know that Florida has 18 area codes?

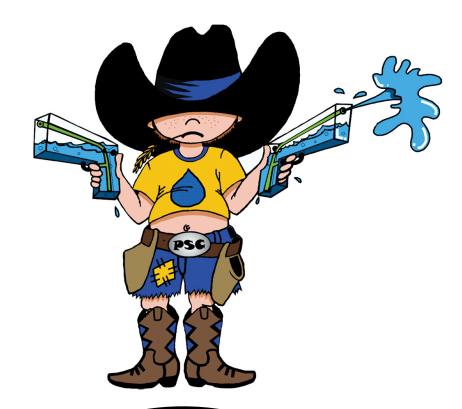
So, if you live in Tallahassee and your grandparents live in Tampa, you have to call a different area code to talk to them. Why do we

have area codes? Area codes make it possible to create more telephone numbers. Because Florida has a growing population, and the use of cell phones, fax machines and computers has increased, area codes are being exhausted. Prior to 1995, our state had only four area codes: 305, 407, 813, and 904. Since then, another 14 area codes have been added.

Can you list all of Florida's area codes? Try it out.

			689	277	321	987		
239	Z0 7	302	893	352	794	146		
⊅ 06	1 96	813	386	199	727	820		

:SA = W S N A



THE

CONSERVATION GAMES SECTION







Conservation

Directions: Fill in the correct letters to spell each word.

C_NS__VAT__N COM_I_SION

W_T_R EN_ _GY

MET__ _OL_ R

P_WER OUTA_ES

REGU_ATI_N N_TUR_L GAS

U__LI_Y R_USE

WA_ER DRO_ RAT__AKING

INTE_RUPT_ONS POW_R SURG_

G_L_ON W_SH_R

TEM_ER__URE HO__EH_LD

LEAK_ FAU_ET CONS_MP_ION

VEN ILA ION INS LA E

FIL_ER W_A_HER-_TRI_PING

Answers from left to right: conservation, commission, water, energy, investor-owned, electric, meter, solar, power, outages, regulation, natural gas, utility, reuse, water drop, ratemaking, interruptions, power surge, gallon, washer, temperature, household, leaky faucet, consumption, ventilation, insulate, filter, weather-stripping



A L RJWS S W Ρ S K \mathbf{N} Ι C C E Η \mathbf{L} P 0 U Η Y Т 0 0 Т U V G D L R D M \mathbf{L} E Y C M \mathbf{Z} S S \mathbf{N} C U E R L L P U Α E C S L R E 0 U R C E S R N Α N E I P M C U E Т C \mathbf{N} A D V Ι \mathbf{E} 0 Α F K F P E M Ι E L \mathbf{B} R M \mathbf{R} P P P D Α Т Α R L 0 G 0 E U W A J P N G В C 0 I N S Α L Y C C S Y 0 S M A Α Y N R \mathbf{N} A G J W Ι \mathbf{Z} Z C L Α Т C V D W S R E I E I R F E Т Т Α В M \mathbf{N} E N Т \mathbf{Z} \mathbf{H} Ε R E Α W U L N \mathbf{D} \mathbf{E} E Т R E Ε S Η N L J P E S C S C LA T I J В P \mathbf{C} V J

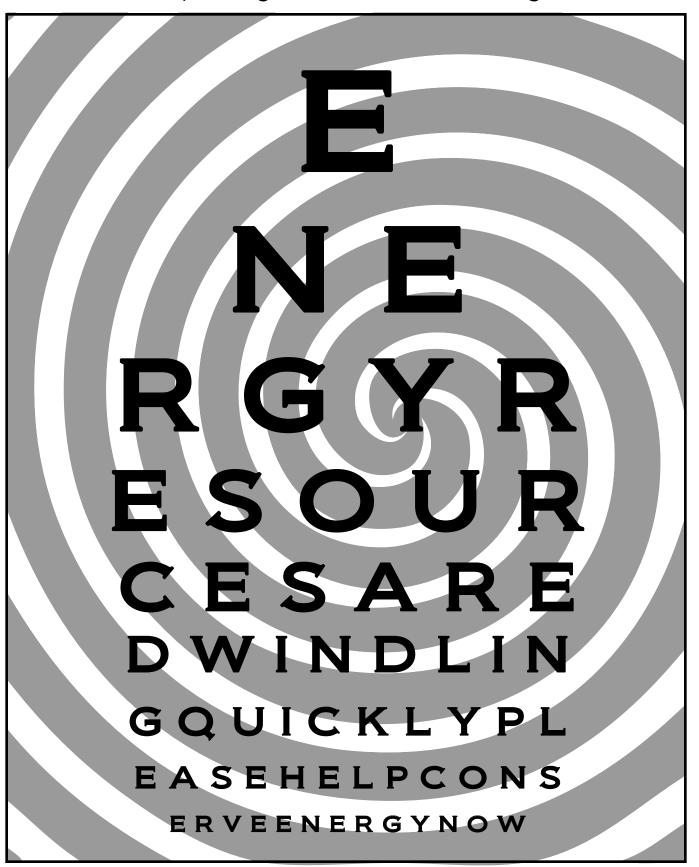
Find the following words related to recycling and energy use:

ALUMINUM
CANS
ENERGY
MAGAZINES
PLASTIC
REDUCE
TREES

BATTERIES
CARDBOARD
GLASS
NEWSPAPERS
POLLUTION
RESOURCES
WATER

BOTTLES
CONSERVATION
LANDFILL
PAPER
RECYCLE
REUSE

Take a look at the eye chart. Can you figure out the message?



Conservation Makes Sense!



Start with picture side down.



Fold each corner to the center.



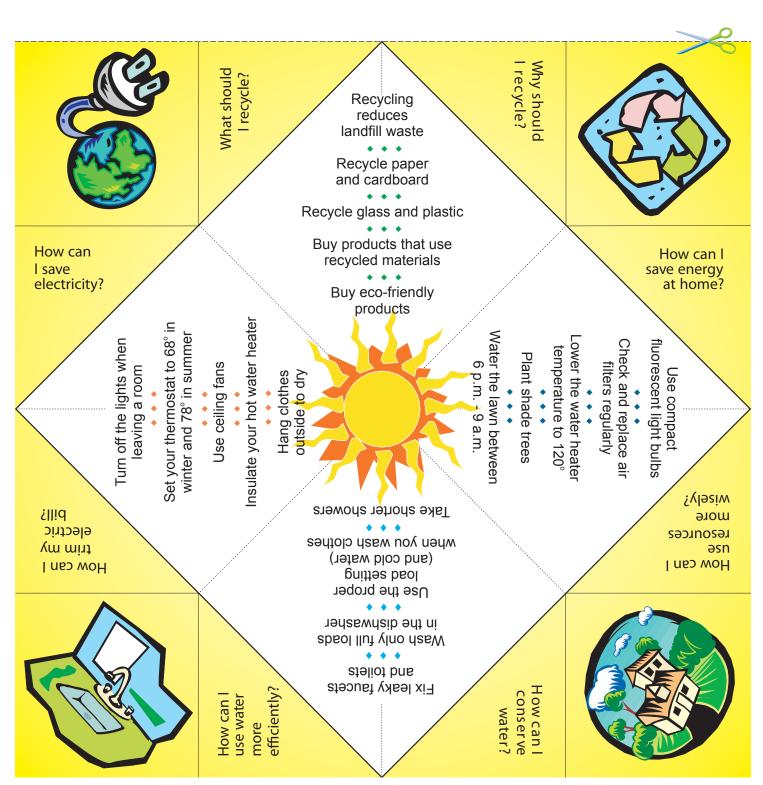
Now, turn the paper over.



Again, fold each corner to the center.

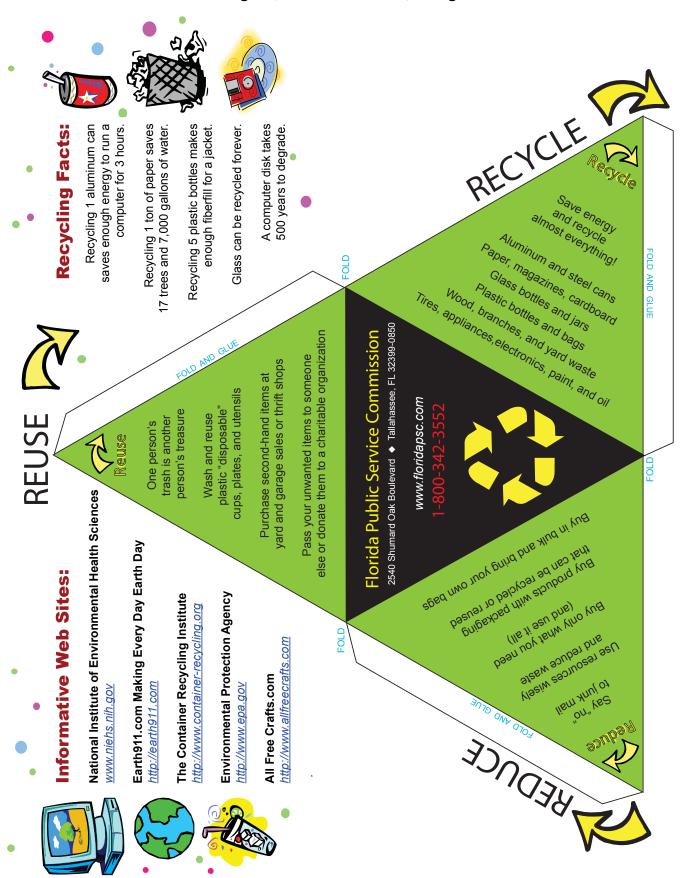


Put a finger in each section and use.

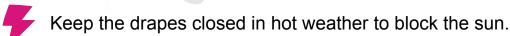


Make a REUSE, RECYCLE, and REDUCE Pyramid

Cut out the figure, fold on the lines, and glue the tabs.







- During the summer, turn up your thermostat to 80 degrees or higher when away from the house. By adjusting your thermostat 10-15 degrees higher in the summer for eight hours, consumers can save about 10 percent on cooling costs each year.
- Buy a programmable thermostat to pre-set the house temperature throughout the day.
- Use dimmer controls, high/low switches, or three-way bulbs to adjust the level of lighting to exactly what is needed.
- Wash clothes in cold or warm water whenever possible.
- Keep the refrigerator between 36 and 38 degrees and the freezer between zero and five degrees.
- Limit the number of times the refrigerator door is opened during the day. Make sure that the refrigerator is kept at least partially full. Locate the refrigerator away from sources of heat, such as sunlight, ovens and dishwashers.

Conservation begins with you, and the things that you do at home every day!



Water Conservation Helps You Save Money

The Florida Public Service Commission offers these water conservation tips to aid in saving money this summer.



When watering the lawn, water in the cooler times of the day, specifically in the evening, to avoid rapid evaporation. This is better for the lawn and allows a reduced amount of water to be used. Check the weather forecast before watering outside. If there is a chance of rain, hold off seeing if Mother Nature will help out.



Using less water in the bathroom can also help conserve water. The simplest ways are to take shorter showers and turn off the water while brushing teeth. To find out whether a bath or shower saves more water try plugging the drain while taking a shower. If there is less water in the tub after the shower than is normally used for a bath, consider taking more showers.



If using a dishwasher, remember to always do full, instead of partial, loads. Using a dishwasher efficiently instead of doing dishes by hand will save water and money.



Be sure to check all household faucets for leaks, annually.

Get Wise and Conserve Florida

If you have questions, call the Florida Public Service Commission's Office of Consumer Assistance & Outreach at 1-800-342-3552,

Fax questions to 1-800-511-0809,

or contact the FPSC via e-mail: contact@psc.state.fl.us See our Internet home page at www.floridapsc.com

Or write:

Florida Public Service Commission
Office of Consumer Assistance & Outreach
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850