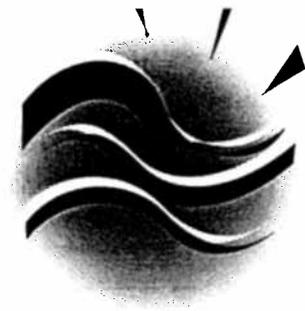


CORE ACTIVITIES

WATER ACTIVITY WORKSHEETS



1. GRAPHING.

Create a line graph or pictorial graph by plotting the following on a horizontal line: baths and showers, flushing toilet, washing face and hands, getting a drink and brushing your teeth. Estimate the amount of water you think you will use over the week. Fill in the line graph in red.

ESTIMATED INDIVIDUAL WATER USE



bath/shower • toilet • washing hands/face • drinking • brushing teeth

2. SURVEY.

Take the two Water Use Surveys home, and hang them where everyone in the house can see. Over one week, have everyone in the family (that's you too!) check off what they use each time they use it. For example, if your brother had a shower on Sunday, he would place one mark under the first S in the Family Use chart. You should also keep a record of your own individual use on a separate chart.

- Looking at how much water your family uses, where could water use be reduced?
- What items use the most water in your house?
- Looking at how much water you individually use, where could you reduce your water use?

3. GRAPHING.

At the end of the week, complete the line graph of individual water use, with the information from your Individual Water Use Survey. Do this in a different colour from your estimated water use (#1).

ACTUAL INDIVIDUAL WATER USE



bath/shower • toilet • washing hands/face • drinking • brushing teeth

3 GRAPHING (CONTINUED)

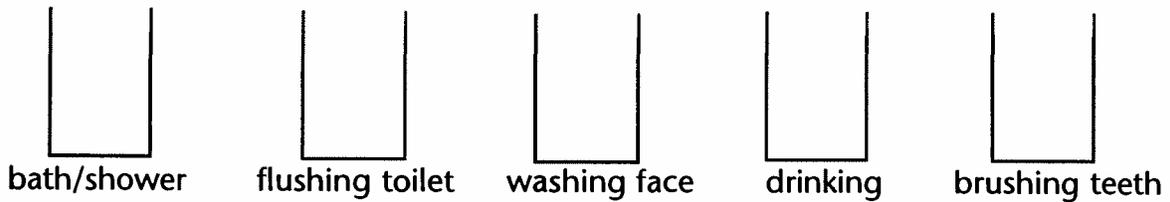
a) How does your actual water use differ from your estimated use? Is it more or less?

CONCRETE CHART:

Using the concept of water in a cylinder, create five cylinders measuring 500 L each, marking off intervals every 50 L. "Fill" your cylinders with the amount of water you consumed over the week.

BAR CHART:

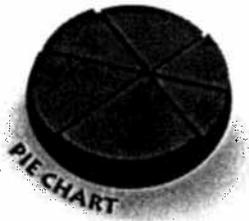
Individual Water Use



SYMBOLIC CHART:

PIE CHART:

Create a pie chart of your family's water use.



b) If the average Canadian consumes 350L of water a day in the household, how much is this per year? _____

c) What percentage of your water does your family use in the kitchen? In the washroom?

d) What other things use water that aren't on the list? _____

4. QUESTIONNAIRE.

Listed below are suggestions for reducing your Water Footprint. Do you do these things? Write "Y" for Yes, "N" for No and "S" for Sometimes.



DO YOU DO THIS?

WASHROOM:

- 1. Toilet tanks that have a dam or plastic bottle filled with water reduce the water used per flush. An efficient low flush toilet also reduces water use.
- 2. When brushing your teeth, turn the water off or use a cup filled with water.
- 3. When washing your hands/face turn off the water.
- 4. Take five minute showers - it uses less water than a bath.
- 5. Install a low flow showerhead.
- 6. Make sure your faucets are leak free.

KITCHEN:

- 1. Make sure your faucets are leak free.
- 2. When getting a drink of water don't run the water until it's cold.
- 3. Steam vegetables with a small amount of water in the pan.
- 4. Recycle the water after steaming vegetables.
- 5. Fill the sink only half full when washing dishes by hand.
- 6. Rinse the dishes in a half full sink when washing dishes by hand.
- 7. When using the dishwasher use the economy cycle.
- 8. Fill the dishwasher completely before using it.
- 9. Clean fruits and vegetables in a bowl of water, or partially filled sink.

LAUNDRY:

- 1. The washing machine should be full when you use it.
- 2. If you are washing a small load of clothes, adjust the water level.

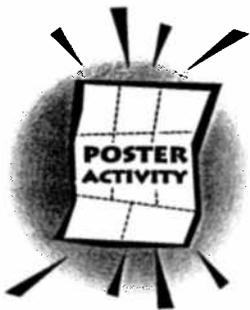
- ___ 3. Use the lowest possible temperature setting when washing your clothes.
- ___ 4. Rinse clothes in cold water.

OUTSIDE:

- ___ 1. Water the lawn less than twice a week.
- ___ 2. Use a sprinkler instead of a garden hose to water the lawn.
- ___ 3. Make sure your garden hose/sprinkler is leak free.
- ___ 4. Water during the coolest parts of the day (early morning or evening).
- ___ 5. Do not water on days that are windy.
- ___ 6. Collect rainwater to use for watering plants.
- ___ 7. Wash your car or bicycle with a bucket of water.
- ___ 8. Sweep the sidewalks, do not use the hose to water them down.

Add suggestions of your own to this list. Post these ideas around your house. You could make a poster, fridge magnets, or tape index cards to walls. BE CREATIVE and SPREAD THE WORD!

5. Watnorgs from the planet Plaqua have a water crisis and have no choice. They must siphon water reserves from the planet Earth. They estimate a 200 litre a day shortage for the average Canadian family of 4. Which means (if you have done your math correctly) that your family of 4 now has only 150 litres of a water a day.



Map out a plan of how you will use your precious share for a day. To find out how many litres of water are used by each item in your house refer to the **WATER POSTER**.

What country uses 150 litres of water per household per day?

6. Make a list of suggestions of ways in which you can reduce your Water Footprint.

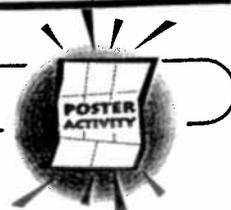


Record these and place them in your portfolio.

INDIVIDUAL WATER USE SURVEY

ITEM	A. Canadian Average	Times Used Per Week - INDIVIDUAL						B. Weekly Total	C. Weekly Total	(AxC) Litres Used
		M	T	W	T	F	S			
Bath										
Shower										
Toilet										
Wash face/hands										
Brush Teeth										
Get Drink										
Cook Meal										
Handwash Dishes										
Dishwasher										
Wash Clothes										
Wash Car										
Water Lawn (min.)										
TOTAL										

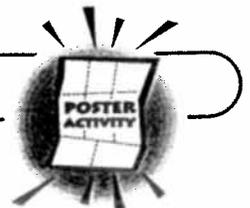
* To find out how many litres of water are used by each item, refer to the **WATER POSTER**.



FAMILY WATER USE SURVEY

ITEM	A. Canadian Average	Times Used Per Week -						B. Weekly Total	C. Weekly Total	(AxC) Litres Used
		M	T	W	T	F	S			
Bath										
Shower										
Toilet										
Wash face/hands										
Brush Teeth										
Get Drink										
Cook Meal										
Handwash Dishes										
Dishwasher										
Wash Clothes										
Wash Car										
Water Lawn (min.)										
TOTAL										

* To find out how many litres of water are used by each item, refer to the **WATER POSTER**.



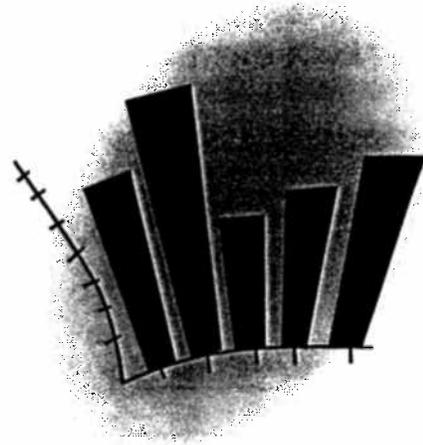
GRAPHING DATA ACTIVITIES

ORGANIZING WATER DATA ACTIVITY

CLASS WATER DATA FROM DATA ORGANIZER

OF TIMES THE CLASS FLUSHED THE TOILET

Number of times	Number of Students
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	



Represent the class water data on a bar chart. Remember to label your axes and give your graph a title.

ANALYZING YOUR GRAPH

1. What is the range of toilet flushes for the class? _____
2. Describe the population sample. _____

3. What is the median toilet flush for the class? _____
4. What is the mode toilet flush for the class? _____
5. What is the mean toilet flush for the class? _____
6. Go to the **WATER POSTER** and record the average amount of water used each time a person flushes the toilet. Calculate how much water the class used flushing the toilet.

7. If each toilet used 1L less per flush, how much water would the class save?
8. What could you do to your toilet to use less water? _____

9. Why should Canadians use less water when there is so much fresh water available to us?

