







## HERE'S HOW YOU CAN CALCULATE YOUR AVERAGE DAILY WATER USE.

Example: Measured in 1,000 gallon units		Gallons used this month  14 units  14 x 1,000 = 14,000		Number of days in a month 30 days 3,500 ÷ 30 = 116.6		Gallons used by each person each day  116.6 gallons per person/day	
Your Numbers	Your water usage in gallons					-	

#### Water Use Rating:

Excellent: 30 - 80 gallons per person / day Good: 81 - 120 gallons per person / day Fair: 121 - 160 gallons per person / day

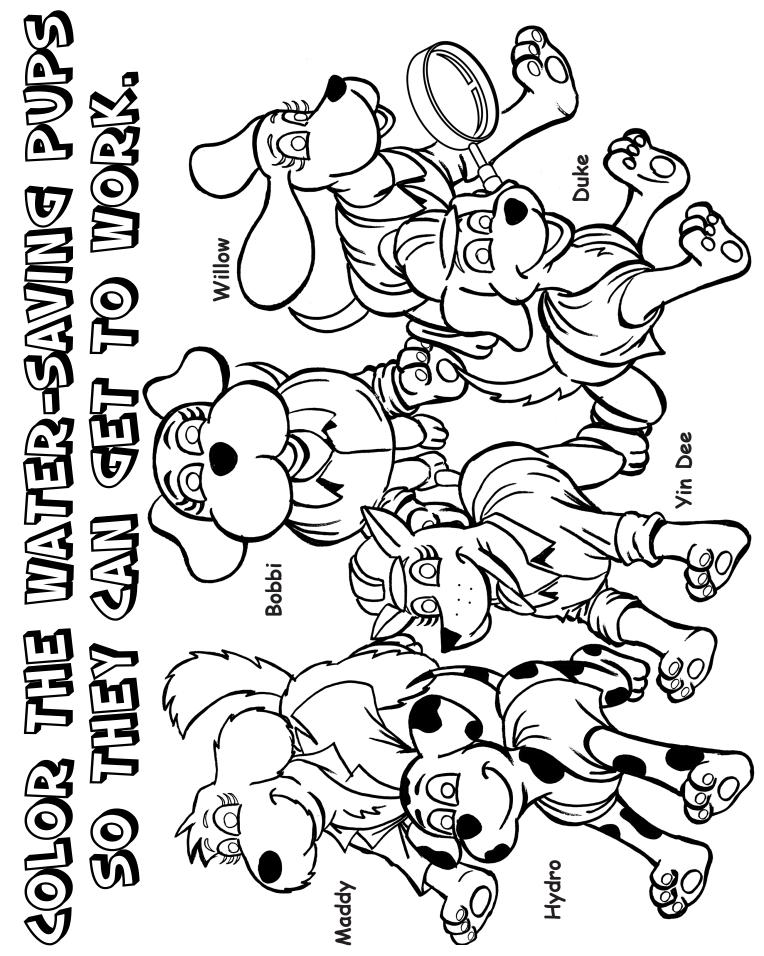
### DIRECTIONS:

Ask your parents or guardians how much water your household used last month.

This information can be found on the water bill.

Greater than 160 gallons per person / day: Tell an adult to call your water provider for ways to reduce your water use. Higher water use could be due to a large landscape area. Check for leaks periodically. Seasonal use may vary.

# THE ADVENTURES OF THE SPONSORED BY **Tempe** Delivering water and power Avondale





Hi! I'm Willow, the Water Conservation Specialist. I have a lot of things that I do in my job, like teaching you how to use your meter to find leaks, helping you understand your water usage, and showing you how to program your irrigation controller.

Your town or city offers classes on how to check your home for leaks, choose desert-adapted plants and trees, and many other water-saving classes. These classes are free and so are the materials you get to take home to reduce your water use. If you call me for an appointment, sometimes I can come to your home, school or business and conduct a free water efficiency checkup!

Here are examples of common water-wasting problems. Do you know the answers?

1. If a toilet is leaki	ng at 1 gallon per min	ute, how many gallons a	re leaking
A. Per hour	B. Per day	_ C. Per month	_ D. Per year
2. If an irrigation va	lve is leaking at 0.5 g	allons per minute, how n	many gallons are leaking
A. Per hour	B. Per day	_ C. Per month	_ D. Per year
3. If a meter is is sh	nowing a leak of 2 gal	lons per minute, how ma	ny gallons are leaking
A. Per hour	B. Per day	_ C. Per month	_ D. Per year
4. If 12 homes in the no	eighborhood have the so	ame leak as in question #3	, how many gallons are leaking
A. Per hour	B. Per day	_ C. Per month	_ D. Per year

2. a.) 30 GPH, b.) 720 GPD, c.) 21,600 GPM, d.) 262,800 GPY, 4.0 a.) 1,440 GPH, b.) 34,560 GPD, c.) 1,036,800 GPM, d.) 12,614,400 GPY.

3. a.) 120 GPH, b.) 2,880 GPD, c.) 86,400 GPM, d.) 1,051,200 GPY, a. a.)

Hi! I'm Hydro, the Water Distribution Technician. My job is to make sure the clean drinking water travels safely through underground pipes.

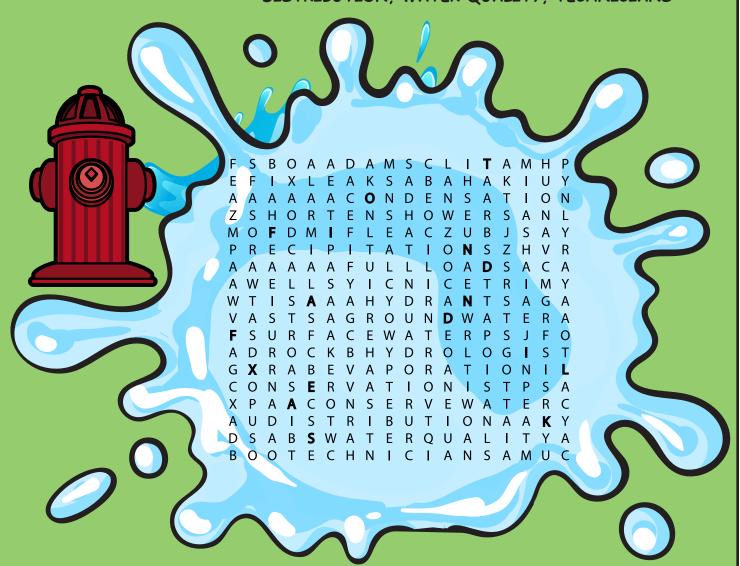
I check the distribution lines and fire hydrants for leaks.

If there is a leak, I fix it as quickly as I can.

A leaking pipe can cause major damage to streets and buildings. I also take water samples from different locations and bring them to the water quality lab to ensure our water is safe.

#### Find and circle these words

CONSERVE WATER, FIX LEAKS, FULL LOADS,
SHORTEN SHOWERS, DAMS, CONDENSATION, PRECIPITATION,
WELLS, HYDRANTS, GROUNDWATER, SURFACE WATER,
HYDROLOGIST, EVAPORATION, CONSERVATIONIST,
DISTRIBUTION, WATER QUALITY, TECHNICIANS



Find the bolded letters above and write them on the lines below to read the secret message.

Hi! I'm Yin Dee, a Hydrologist. My job is to study how water moves over and through the soil. I determine how much and when water is going to be available in our reservoirs and how fast it will flow. I analyze the data and make recommendations to the water managers so they can prepare for a flood or plan for a drought. I also work closely with other scientists and engineers to solve problems like erosion and pollution. My job is very important to your quality of life because water means life.



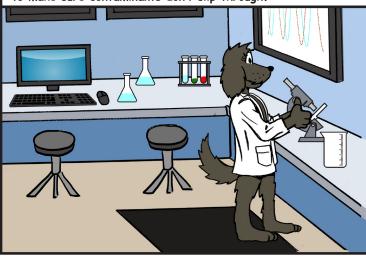
Hi! I'm Duke, a Dam Maintenance Worker. My job is to make sure that all the equipment at the dams is working properly. Every day I inspect everything in order to avoid equipment problems. I work with blueprints and repair manuals. Sometimes I need to replace a part of the flood control operating system. My job is essential for the safety of the people and animals below the dam.



Hi, I'm Bobbi, a Water Treatment Plant Operator. I love my job at the Water Treatment Plant. It's exciting to watch the surface water change into drinking water. The water is treated so that small particles can stick together and make bigger particles that can then be removed. The water treatment process is essential to bring safe, reliable, affordable and sustainable drinking water to your homes and schools!



Hi, I'm Maddy, a Water Quality Lab Technician. My job is to test the water at the Water Treatment Plant to make sure it meets the necessary guidelines and is safe for you to drink. I do this by adding testing agents and measuring the reaction. Sometimes I also make slides and use a microscope to make sure contaminants don't slip through.



There are many important jobs that are essential to bring drinking water to your home or school. We will meet the other team members later.

Draw a line from the job to its definition.

- a. Hydrologist
- b. Dam Maintenance Worker
- c. Water Treatment Plant Operator
- d. Water Quality Lab Technician
- e. Water Conservation Specialist
- f. Water Distribution Technician

- 1. I help you find ways to conserve water.
- 2. I take surface water and turn it into drinking water.
- 3. I make sure all the equipment is working properly.
- 4. I check the distribution lines and fire hydrants for leaks.
- 5. I test all drinking water before it is sent to you.
- 6. I measure how much water will be available.

Answers: a. 6, b. 3, c. 2, d. 5, e. 1, f. 4

Answer: To Find and Fix Leaks

