

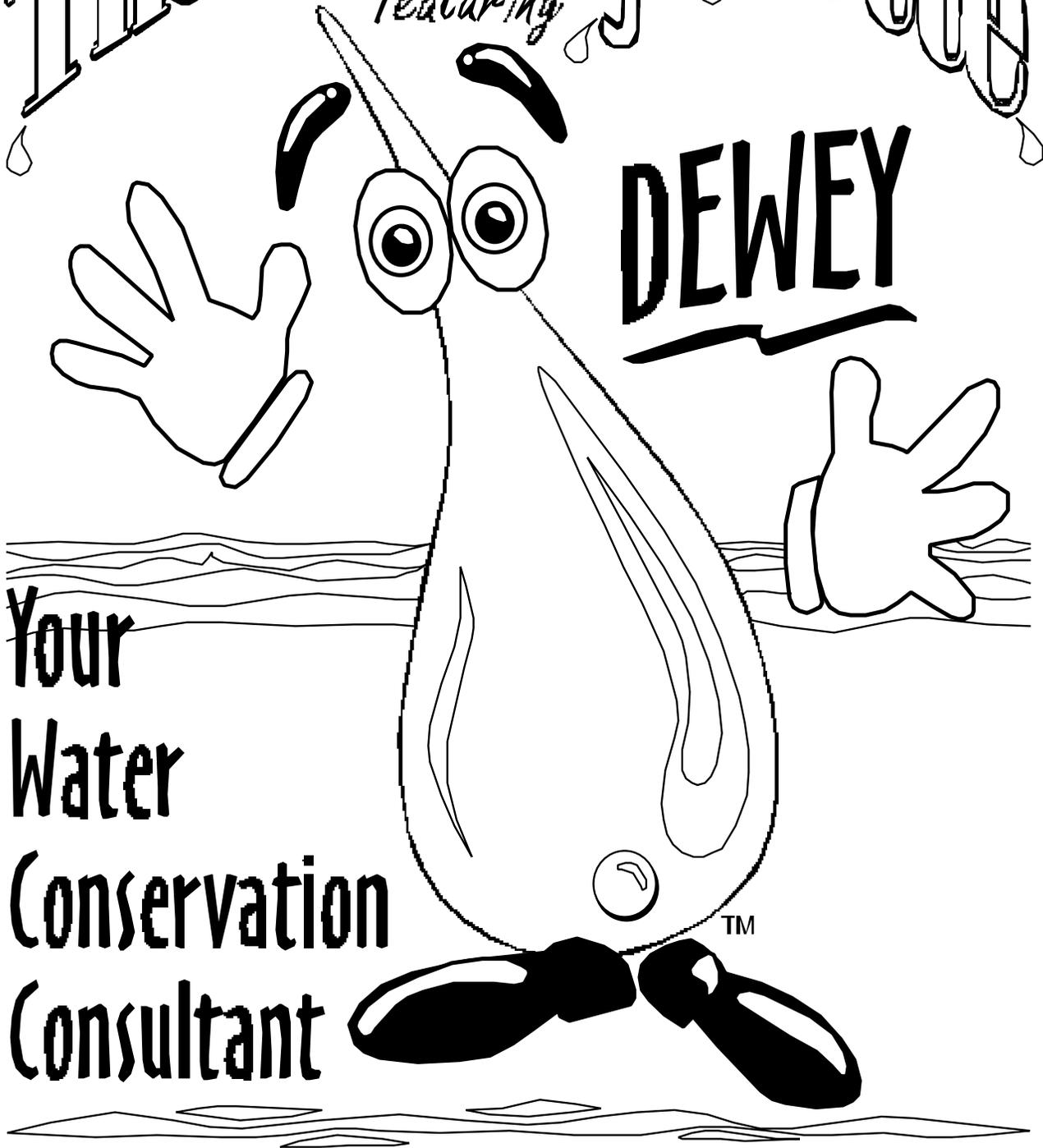
PINELLAS COUNTY UTILITIES

The Wet Gazette

Featuring

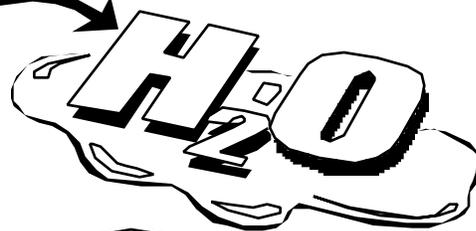
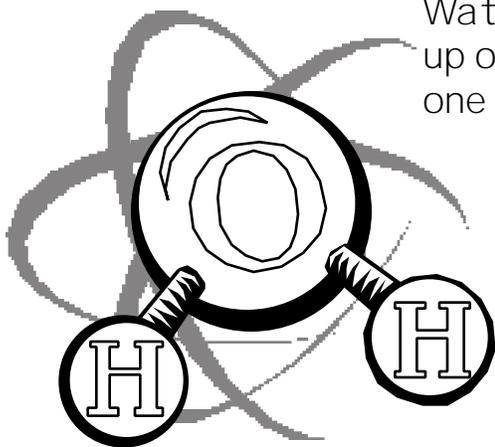
DEWEY

Your
Water
Conservation
Consultant

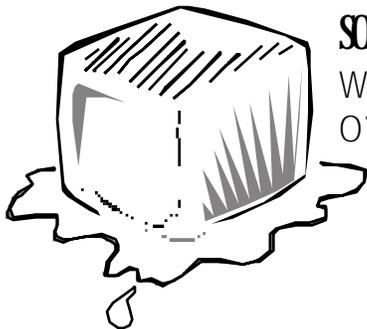


What Is Water?

Everything is made up of atoms. Water is a simple molecule made up of two hydrogen (H) atoms and one oxygen (O) atom.



Water may exist in three different forms



SOLID (Ice)

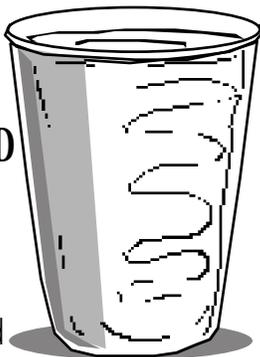
Water freezes at 0°C or 32°F



GAS (Vapor)

Water vapor is everywhere but you cannot see it. Water boils at 100°C or 212°F. When you boil water the liquid water changes into steam. Steam is like a small cloud. Steam and clouds are both made of water vapor that have joined tiny pieces of dust. We can see steam and clouds.

LIQUID

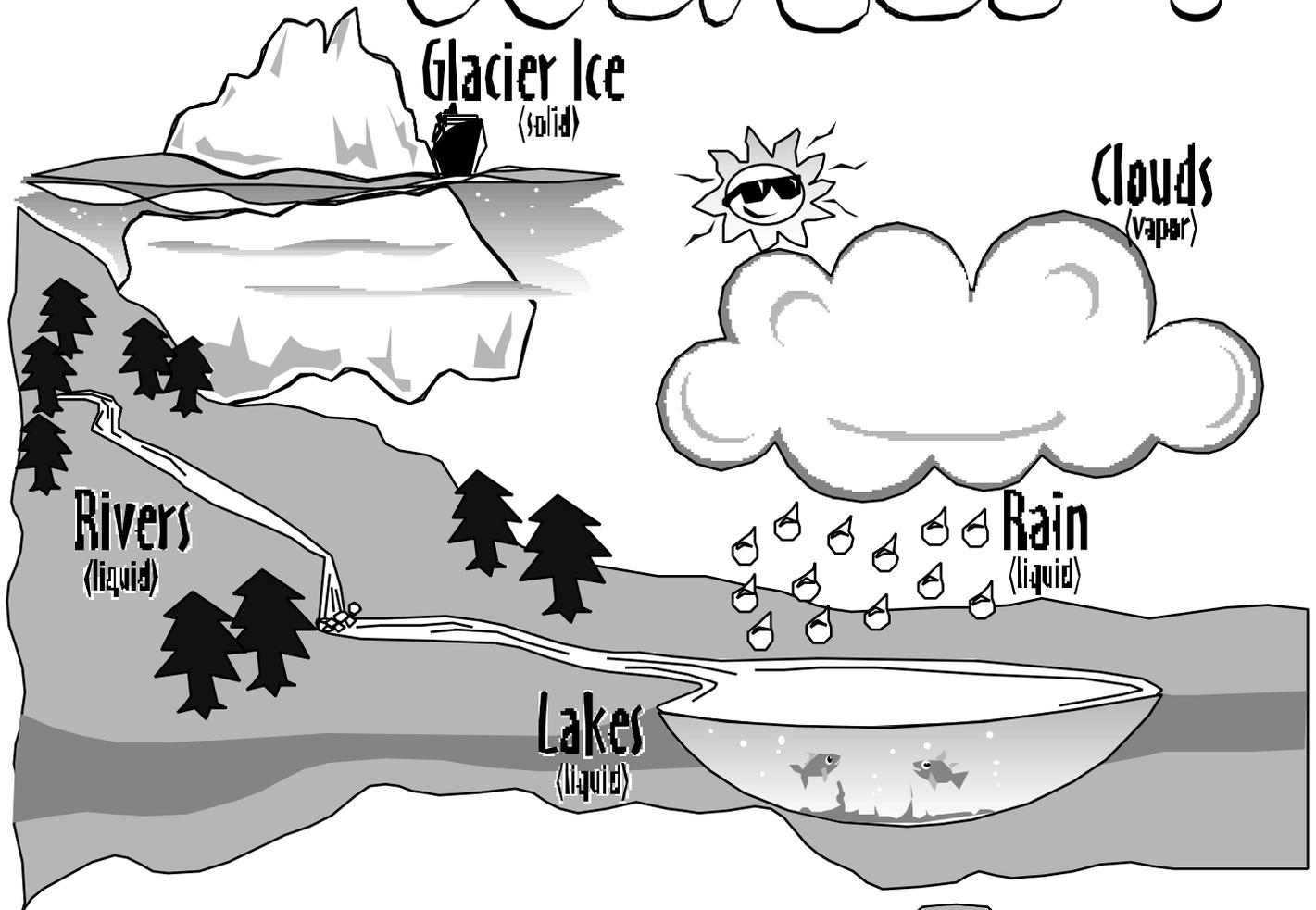


Liquid water has many uses. We drink it, play in it, and wash with it. Liquid water is wet and may be hot or cold.

How many ways do you use liquid water?

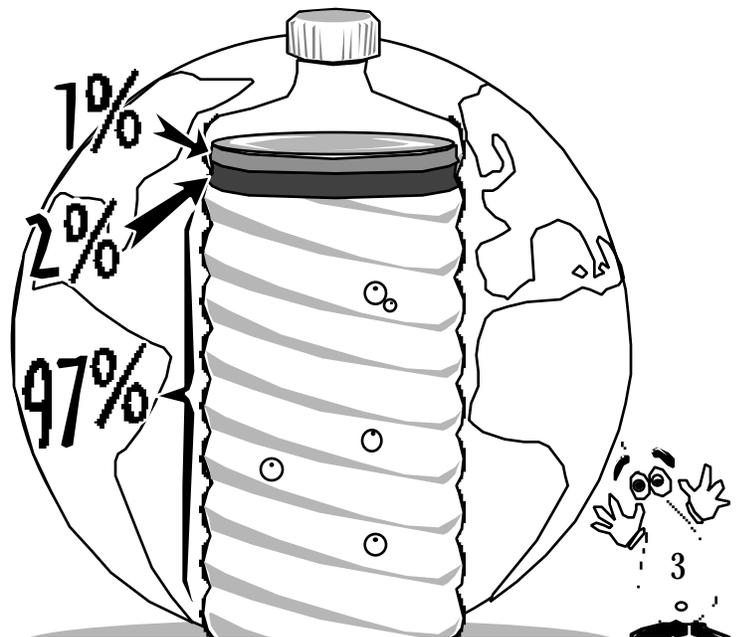


Where Is Water?

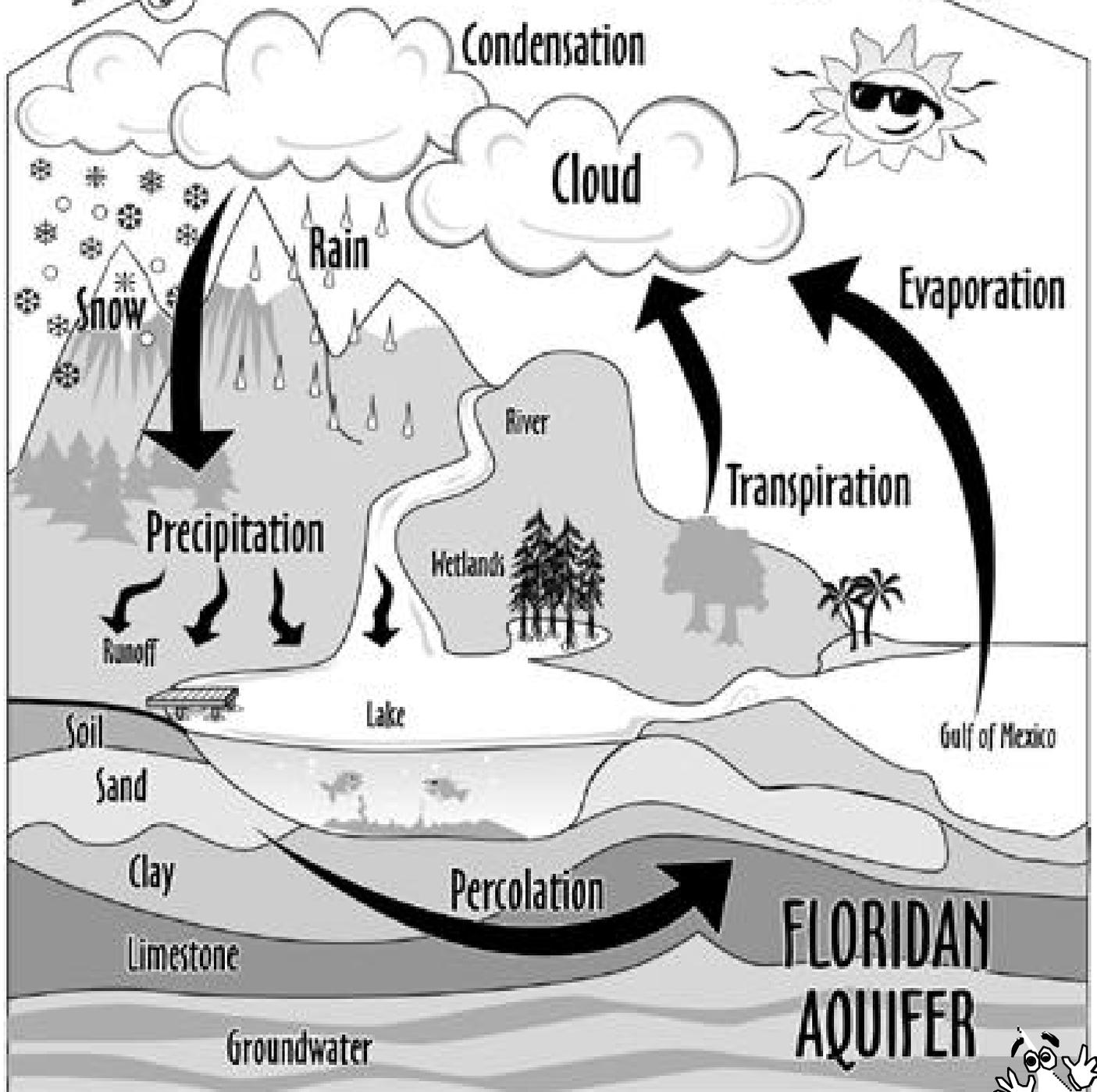


Water on Earth

The EARTH is made up of two-thirds ($\frac{2}{3}$) water. Of all the water on earth, **97%** is salt-water found in the oceans and seas. **2%** of all water on earth is in the form of glacier ice found in the North and South Poles. **1%** of all water on earth is fresh water. So, out of all the water on earth only **1%** of it can be used for activities such as washing, cooking, watering lawns, swimming pools, fighting fires, and drinking.



The Hydrologic Cycle



The Hydrologic Cycle

As the earth is warmed by the sun, water **Evaporates** and travels into the air becoming part of a **cloud** (water vapor). **Condensation** is the formation of clouds holding moisture. When the clouds become heavy with moisture, the water falls back down to earth as rain. In cold temperatures, it could fall back down to earth as snow or hail. Rain, snow, and hail are also known as **Precipitation**. Precipitation helps to replenish rivers and lakes.

Precipitation, or rain, that falls down to earth may also **Percolate**, move downward, into the earth through openings in the ground. This helps to put water back into the underground water sources such as springs and the Floridan Aquifer. Water that does not percolate into the ground is considered **Runoff**. Runoff travels along the top of the ground. Runoff helps to fill the lakes, ponds, rivers, and creeks.

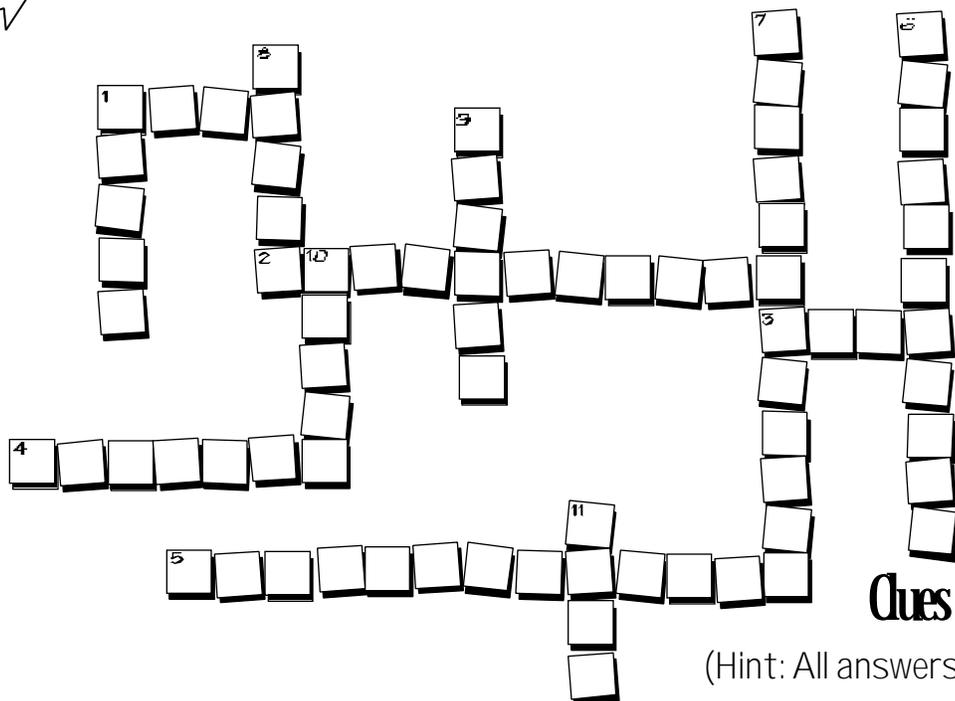
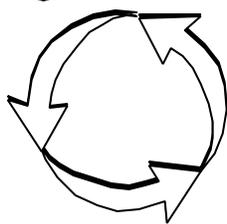
Plants and trees can also put water back into the environment through a process called **Transpiration**. Transpiration is the ability of living things to exhale (breathe) water vapor back into the air. Did you know that one tree can put up to 80 gallons of water back into the atmosphere everyday?!

This is the Hydrologic Cycle. It is a never-ending cycle. Water keeps going through Evaporation, Condensation, Precipitation, and Transpiration over and over again.



The Water Cycle

Crossword Puzzle



Clues

(Hint: All answers appear on previous pages)

Across

- 1 A layer of the Floridan Aquifer; good for molding shapes
- 2 _____ occurs when the earth is warmed and water travels into the air.
- 3 In very cold weather, precipitation may fall down to earth as sleet or _____.
- 4 Florida gets a lot of its groundwater from the Floridan _____.
- 5 Rain, snow, and hail are also known as _____.

Down

- 1 Water may travel into the air becoming part of a _____.
- 6 Water that comes from an aquifer is also known as _____.
- 7 The formation of clouds holding moisture is _____.
- 8 The hydrologic _____ is never-ending.
- 9 Water that does not percolate into the ground but stays on top of the ground is considered _____.
- 10 A cloud is made of water _____.
- 11 Liquid precipitation; _____, _____, go away ...

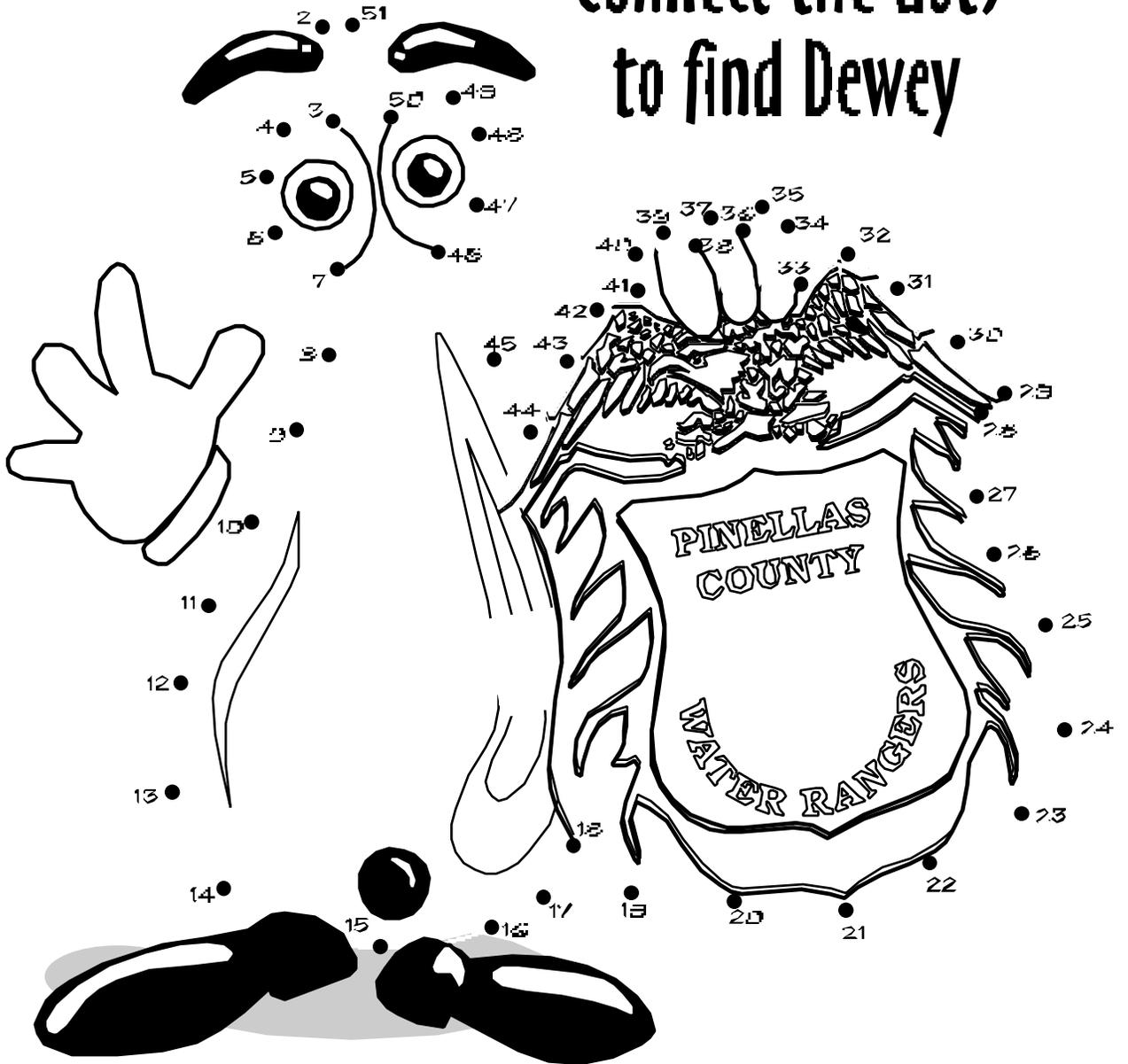


Join DEWEY

In Taking the Pledge

1 ●●52

Connect the dots
to find Dewey





Pinellas County Utilities Water Ranger Pledge

I _____, pledge to:



Promote conservation of our natural water resources



Assist in the education of water awareness and water conservation in the home, at school, and in the community



Continue to educate myself on current water issues and new innovative ways to conserve water



Follow all water restrictions for the betterment of all Florida communities and encourage others to do the same



Encourage those around me to take an active role in water conservation

Name

Date





The Cat Family needs to learn ways to conserve water inside and outside their home. How many ways can you find the Cat Family wasting water?

Circle each water waste in Blue.





- Turn off the water while brushing your teeth or washing your face.
- Don't flush bugs and trash down the toilet.
- Wash full loads in the dishwasher and washing machine.
- When washing the car, use a large bucket and rinse with the hose quickly.
- Don't let the hose continue to run.
- Water plants as needed with small amounts of water.
- Make sure when you water the lawn you don't water the walkway and street too.
- Watch out for cloudy skies. Turn off sprinklers when it's raining.

- How many other ways can you think of to CONSERVE WATER around your house??



FUN FACTS ABOUT Water

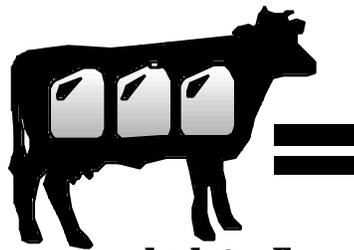


There is about one million miles of pipeline and aqueducts for Water delivery in the US and Canada...enough to go around the earth 40 times!

66% (two-thirds) of the Human Body is Water!



Water is the most common substance on earth, however only 1% of the earth's Water is available for drinking!

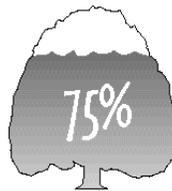


=

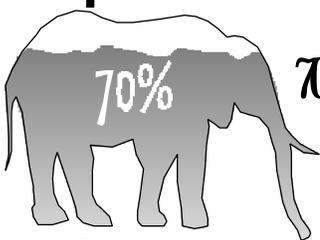


A cow must drink 3 gallons of Water to make 1 gallon of milk!

75% of a tree is Water!

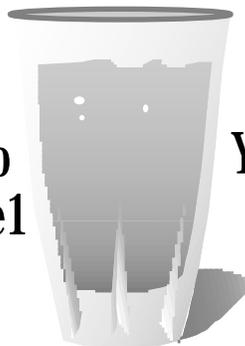


You can survive about one month without food, but only 5 to 7 days without Water!



70% of an elephant is Water!

It takes 50 glasses of Water to grow enough oranges to make 1 glass of orange juice!



You can fill an 8 oz. glass of Water about 15,000 times for the same cost as a six pack of soda pop!

