

Cleveland Water

H₂O KIDS

★ Beginner

WATER
YOU
DRINKING?



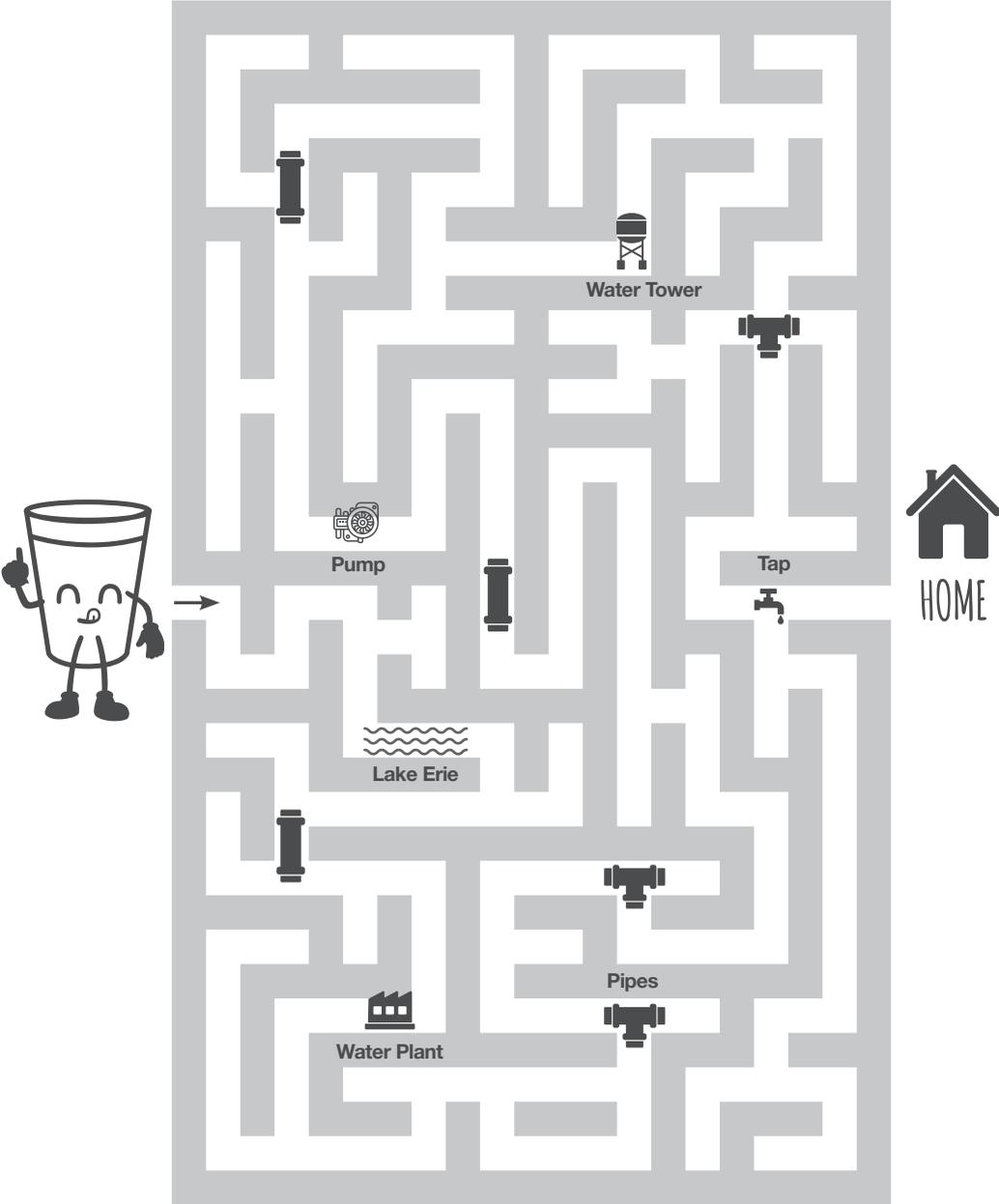
HYDRO



clevelandwater.com

Why isn't water free?

Cleveland Water is A-Mazing and it takes a lot of steps to make it that way. Work your way through the maze and learn what it takes to make sure Hydro gets to your home.



Water Treatment Plants

Cleveland Water treats millions of gallons of water every day for over 1.4 million people.

Would you like to see how water is cleaned? We offer FREE plant tours for interested groups of eight or more Monday thru Friday from 9:00 a.m. to 3:00 p.m. Ask an adult to contact PlantTour@clevelandwater.com or 216.664.2444 extension 75641.

4
Water Plants

5,300
Miles of Mains

16
Pump Stations

22
Tanks & Towers

NOTTINGHAM

WATER TREATMENT PLANT



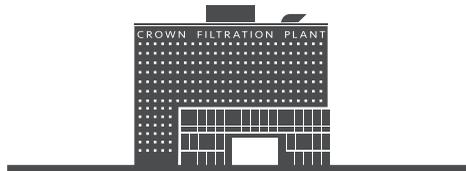
MORGAN

WATER TREATMENT PLANT



CROWN

WATER TREATMENT PLANT



BALDWIN

WATER TREATMENT PLANT



Water Match

Place the correct letter next to the phrase that best describes each picture.

A



_____ Washing hands

_____ Drink water

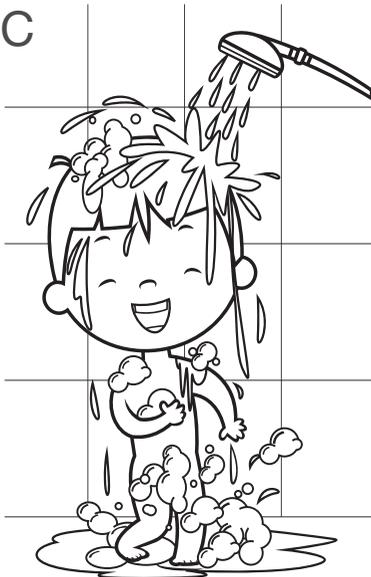
B



_____ Taking a bath

_____ Taking a shower

C



D



Saving Water

It is important that we only use water we need. We do not want to waste water.

Select the answer that shows good water choices.



When I brush my teeth

A: I turn the tap off **B:** Let the tap run



When I take a bath, I fill the tub

A: ¼ full **B:** ½ full **C:** full



When I see a leak, I should

A: Let it drip **B:** tell an adult (mom/dad)



It is hot outside. I play in the water from the hose.

When I am done, I should

A: Let it run **B:** Turn it off

Answers: A, A, B, B

Protect your watershed

Did you know 80% of the trash in Lake Erie comes from the land and 93% of trash on Lake Erie beaches is plastic? Help clean the area before the garbage ends up in the waterway. Circle each item that can be recycled. Then draw a line from it to the recycle bin.

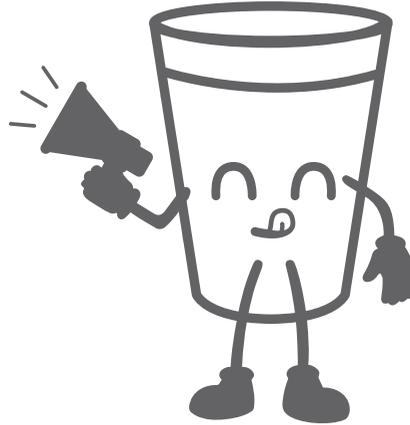


Another way to reduce trash is by using your refillable water bottle from Cleveland Water instead of drinking bottled water!

Crack the Code

Use the secret code chart to solve the importance of what we can do to protect the water cycle.

Code Chart Legend		
▼ = A	⊕ = K	■ = S
◆ = C	● = L	★ = T
✕ = E	♣ = O	* = U
♥ = F	♣ = P	▶ = W
☹ = H	✂ = R	♣ = Y



1 Take shorter _____
 ■ ☹ ♣ ▶ ✕ ✂ ■

2 Turn off the _____
 ▶ ▼ ★ ✕ ✂
 while you brush your _____
 ★ ✕ ✕ ★ ☹

3 If you see a _____
 ● ✕ ▼ ⊕ ♣
 _____, tell a grown up.
 ♥ ▼ * ◆ ✕ ★

4 Don't _____! It is bad for our water.
 ♣ ♣ ● ● * ★ ✕
 Put _____ where it belongs.
 ★ ✂ ▼ ■ ☹

Answers: 1 = showers, 2 = water, teeth, 3 = leaky faucet, 4 = pollute, trash

Drink more water

Did you know?

The Brain is 73% water

Drinking water increases alertness and improves your memory.



Skin is 64% water

Drinking water hydrates your skin cells and flushes out toxins, helping skin look healthier.



Lungs are 83% water

Staying hydrated keeps the mucous membrane lining your lungs thin, helping you breathe easier.



The Heart is 73% water

Dehydration makes your heart work harder to pump blood and get oxygen to cells.



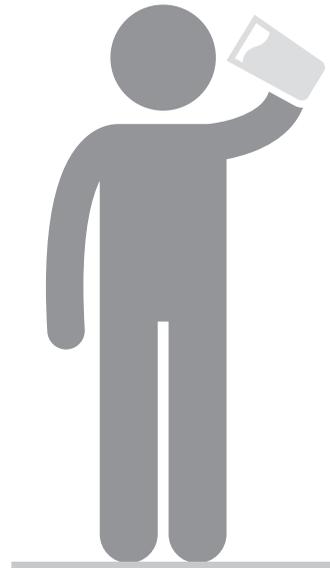
Muscles are 79% water

Drinking water helps muscles grow stronger and faster and prevents muscle cramps.



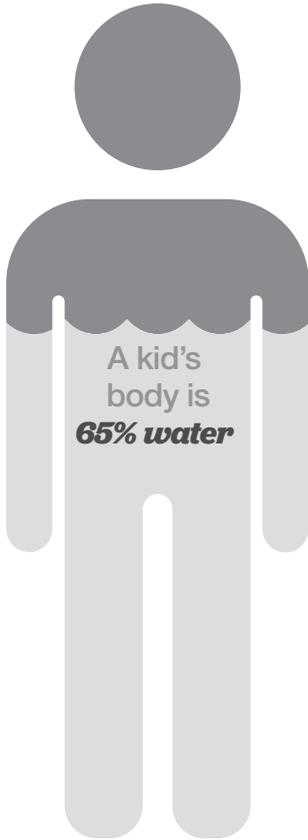
Bones are 31% water

Water brings calcium and other nutrients to your bones, keeping them strong.



1 Which organ has the most water?

2 Which organ works harder when you're dehydrated?



Staying Hydrated

When our body needs water, we feel thirsty. If you lose too much water or don't drink and eat enough, you can get dehydrated. Make it easy – Use reusable water bottles to fill up with tap water throughout the day to easily keep track.

Look at the chart. Find your age. How much water should you drink each day?

My Age	Water in Cups per Day	Total for 7 Days
4	5	35
5	5	35
6	5	35
7	5	35
8	5	35

I need to drink _____ glasses of water each day.
Circle the number of cups per day you need to drink.

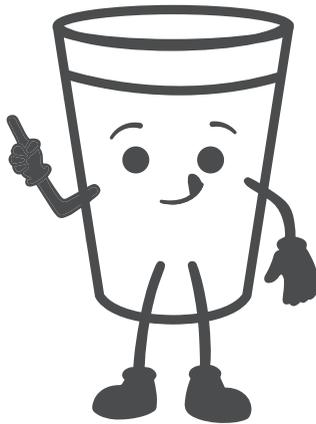
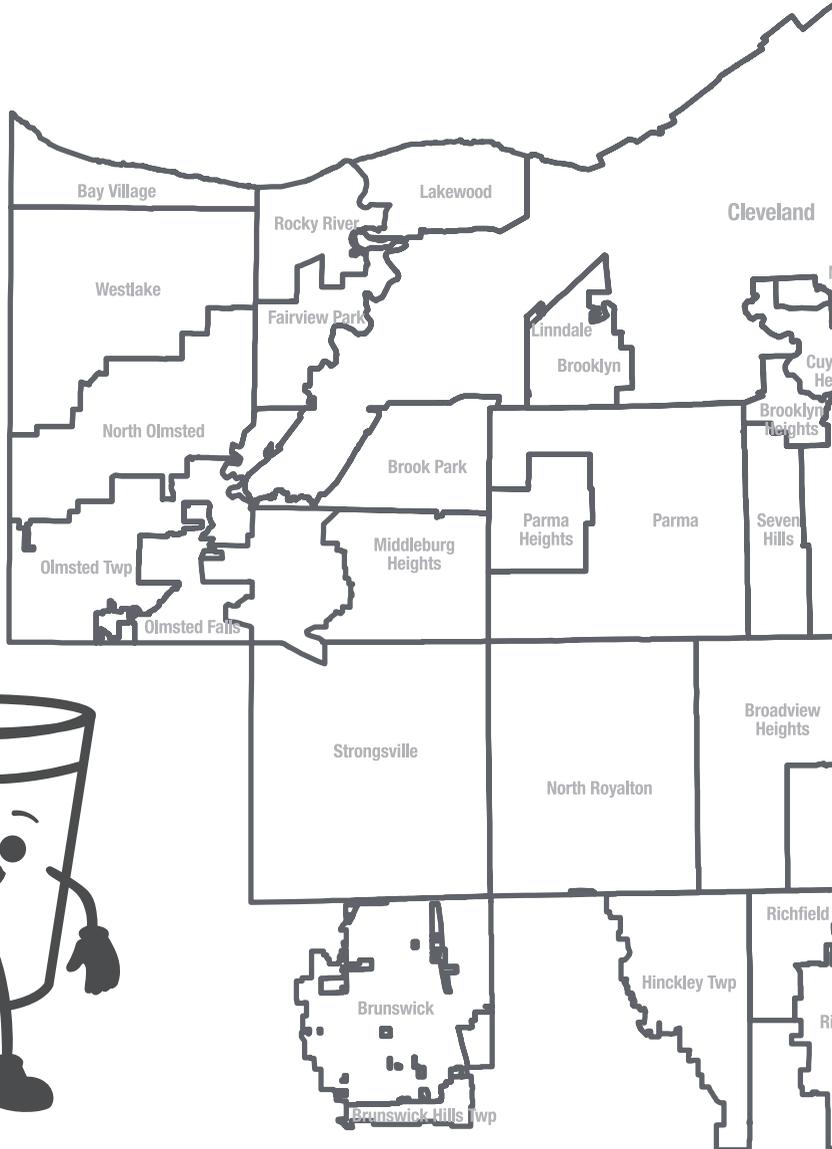


Our Customers

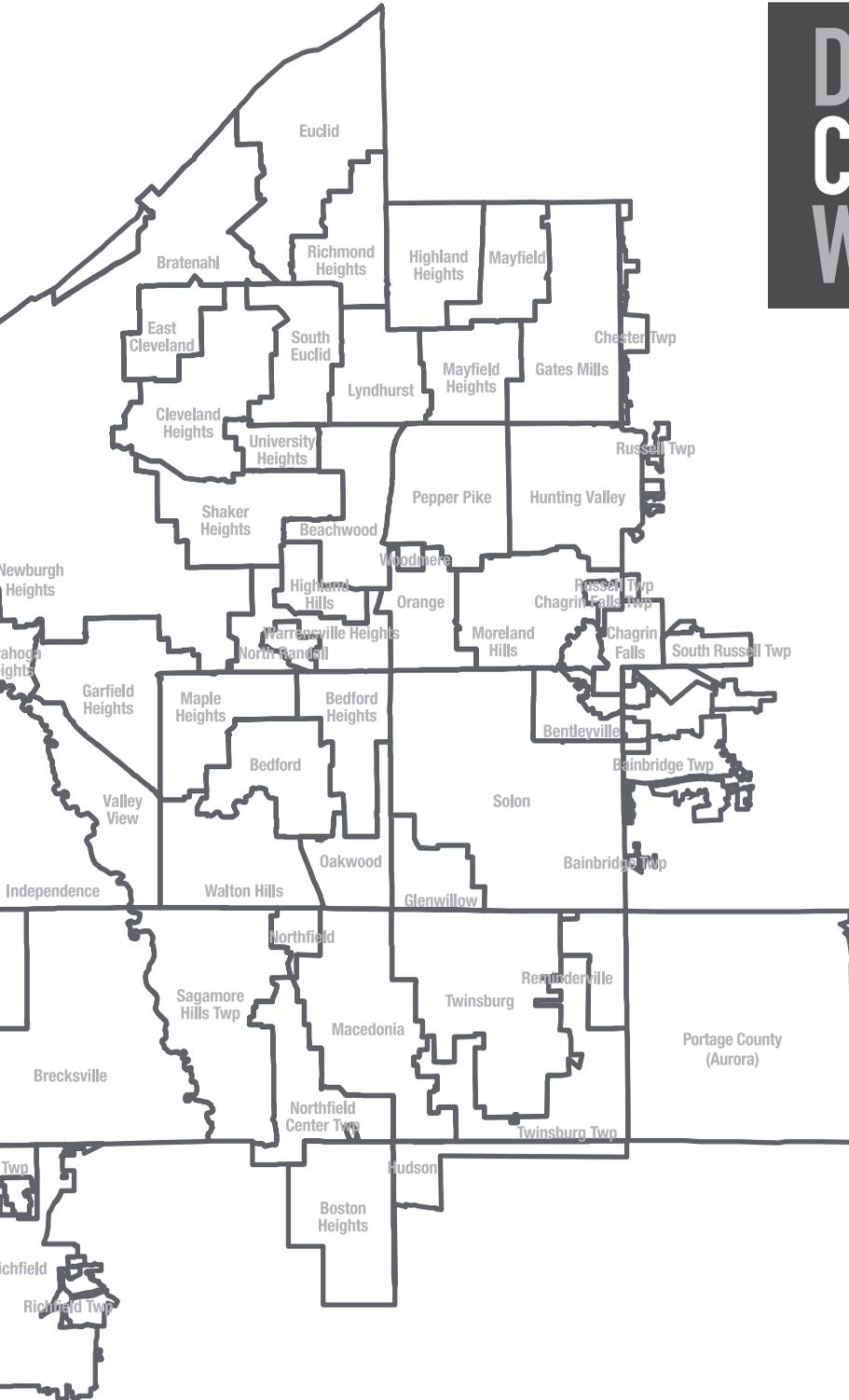
Cleveland Water services **80 communities.**

Do you live in our service area?

Color in your city.



DRINK CLEAN WATER



Count Your Cups

For a week, count how many times you drink water or other drinks. Put a tally mark in the table below for each day. Did you drink enough water each day?

Day of the Week	Water	Milk	Juice or Pop
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Saturday			
Sunday			
WEEK TOTAL			

Did you drink the same amount of water each day?

Check one: YES NO

Color the day (or days if there is a tie) of the week that you drank the most water blue.

Color the day of the week that you drank the least amount of water orange.

Put a smiley face next to each day of the week that you drank as much water or more as you are supposed to drink for your age.

Bring Water with You

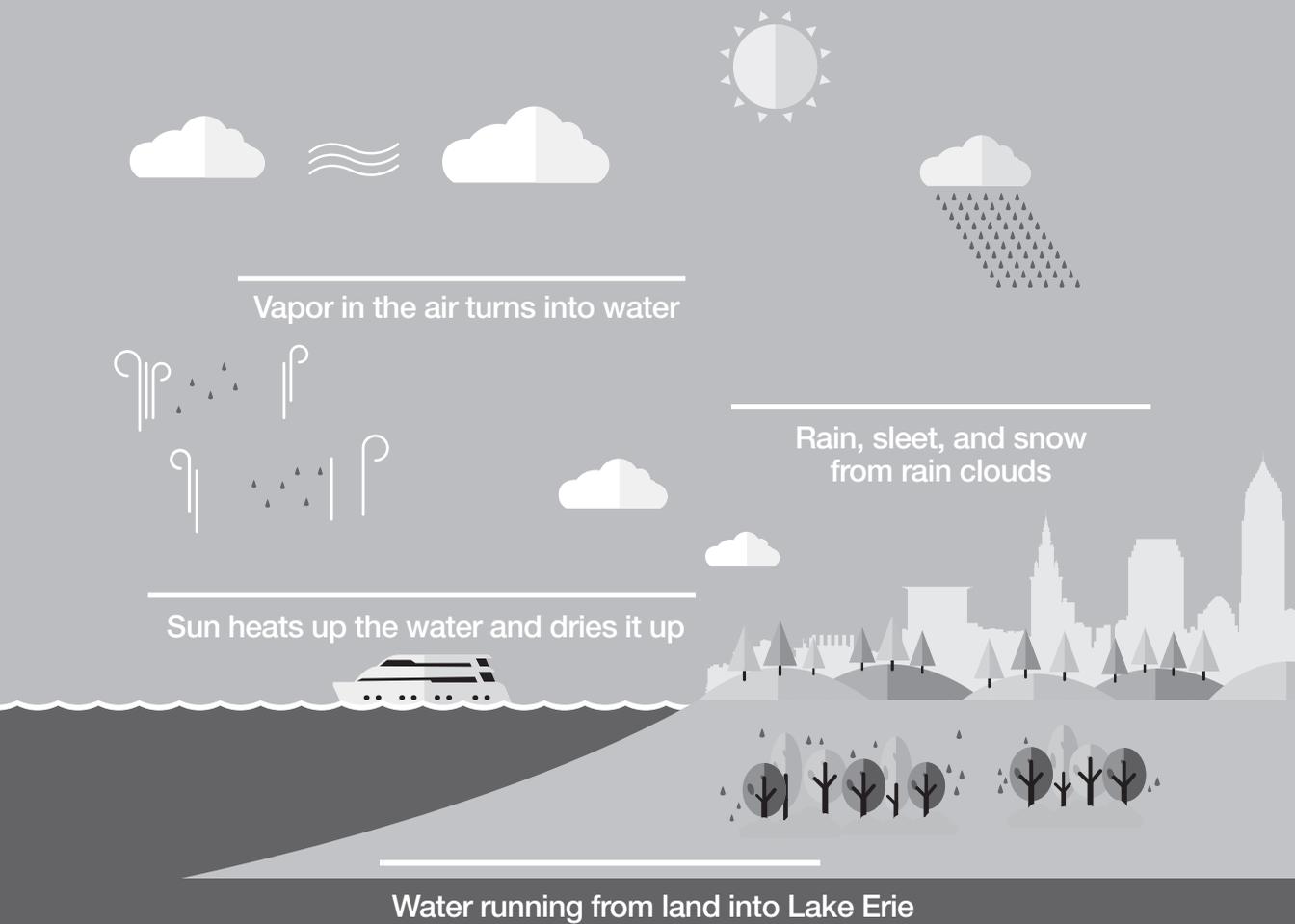
Connect the dots to see what you should take to the beach and then color the picture.



10. .9
.8
.7
.6
5

Water is a clear, odorless, and tasteless liquid. The below drawing illustrates the three states of matter: solid (ice), gas (steam), and liquid (water). That water keeps going around and around and around and around and (well, you get the idea) in what we call the “Water Cycle”.

**IDENTIFY THE CYCLE BELOW WITH THESE WORDS:
precipitation, collection, evaporation, condensation**





Evaporation

Evaporation is when the sun heats up water in rivers or lakes or the ocean and turns it into vapor or steam. The water vapor floats into the air.



Condensation

Water vapor in the air gets cold and changes back into liquid, forming clouds. This is called condensation.



Precipitation

Precipitation occurs when the clouds get too heavy and water falls back to the earth in the form of rain, hail, sleet or snow.



Collection

When water falls back to earth as precipitation, it may fall back in the oceans, lakes or rivers or it may end up on land. When it ends up on land, it will either soak into the earth becoming part of the “ground water” that plants use to drink or it may run over the soil and collect in the rivers, lakes or oceans where the cycle starts all over again.

Make it rain

One of the ways water moves through the Water Cycle is through rain. Water falls from the sky into rivers, streams, and even Cleveland Water's own water source, Lake Erie. You see rain all the time outside but did you know you can make it rain indoors?

What you need:

- Ice cubes
- Wide glass jar
- Plate
- Very hot tap water (with adult supervision)

How to:

- 1 Put the ice cubes on the plate.
- 2 Fill jar about half way full with very hot water.
- 3 Cover the jar with the plate and ice cubes.
- 4 Watch what happens.

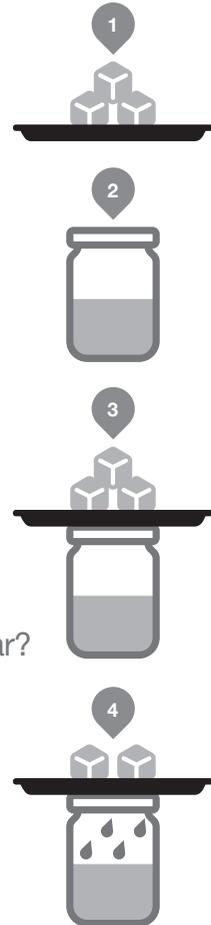
What did you notice when you put your plate over the jar?

This is an example of what part of the Water Cycle?

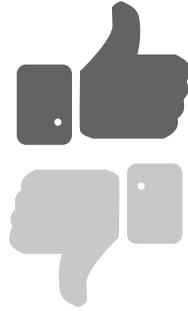
What's happening?

As hot air hits the bottom of the cold plate, water vapor in the air condenses. The water vapor forms water droplets on the bottom of the plate. The water droplets drip down like rain.

The same thing happens in the atmosphere. Warm, moist air rises. The rising warm air meets colder air high in the atmosphere. The water vapor in the warm air condenses and forms water droplets. The water droplets fall to Earth as rain.



True or False Questions



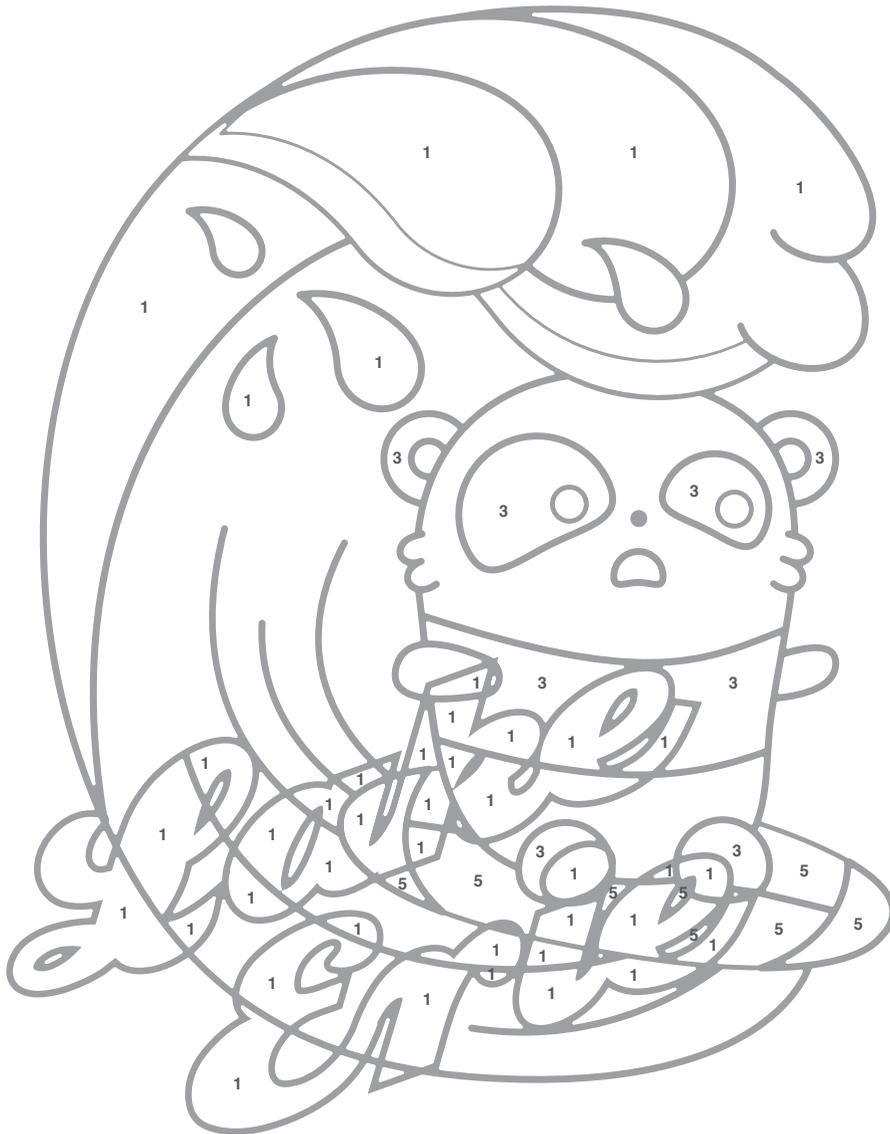
- 1 You should only drink water once a week.
 True False
- 2 Evaporation is a part of the water cycle.
 True False
- 3 You can drink water from Lake Erie without having it cleaned first.
 True False
- 4 Cleveland Water operates 7 days a week, 365 days a year.
 True False
- 5 Cleveland Water only provides water to people that live in Cleveland.
 True False
- 6 The heart is 73% water.
 True False
- 7 It is free to tour the water treatment plant.
 True False

Answers: 1=F, 2=T, 3=F, 4=T, 5=F, 6=T, 7=T

Color the numbers

In our home and school, water comes from a faucet. But where does the water in the faucet come from? Help color the surfing panda bear.

1 = Blue **3 = Black** **5 = Green**



How much water is in Lake Erie?

There are 127 trillion gallons of water in Lake Erie, which is enough to cover the entire state of Ohio!

Uses of Water

U E A C B G C H C A E B Z G N
G F R A F N A O T Y Z F N E W
W X T V K I J J O X A I A D A
Y H L A U N D R Y K M Q I R L
E Q N S E A J D V M I E Q I R
N L V G K E E Y I I G N S N L
R S R V Q L X W G F X X G K X
H Q A I Y C S F Z Y H A G G I
J E Y B A B T L I H C P O S S
F K C Y R H Z A Q Q B V D N U
C K N I Z Q P C Y V A D Z R W
M Q A D C S B M B Z C E T B Q
C K Z M H D I C L T J N Y I U
D V Q C Z K Y C C S H T K J P
Z N A J D X H K M M U D W H X

BATHE

BEACH

CLEANING

COOKING

DRINK

HAIR

LAUNDRY

LAWN

SWIMMING

Looking for a speaker or plant tour?

Children in grades K-8 enjoy interactive, educational experiments and activities led by our team of speakers. This would be ideal for clubs, scouts, youth organizations and schools.

Our speakers also present at high schools, colleges, universities, chambers, rotaries, senior groups and other community organizations.

For more information, please visit us online at:
www.clevelandwater.com/EducationAndOutreach or
call 216.664.3173.



Cleveland Water

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