Water Sources Sing-A-Long

with H2O

Activity Book

TOWN OF QUEEN CREEK · ARIZONA

Hi kids! Welcome to *Water Cycle Sing-A-Long with H2O*.

I'm H2O, you know, water! Join me to learn about water uses, water sources, and water conservation in the Town of Queen Creek. Complete the puzzles, activities, and investigations in this activity book to become a water expert. Use the QR codes with an adult to sing along with me and learn even more about water!

We may live in the Sonoran Desert, but there is water all around us! Color in the page to discover where you can find water in the desert!

Keep your eyes open for hidden pictures of items related to water use. Circle each as you find them. Can you check off all ten?
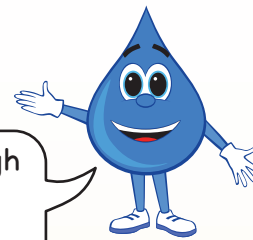
Hidden Pictures
- [ ] Washing machine
- [ ] Bathtub
- [ ] Spray nozzle
- [ ] Toilet
- [ ] Water bottle
- [ ] Dishwasher
- [ ] Shower head
- [ ] Cistern
- [ ] Faucet
- [ ] Toothbrush

Sing-A-Long with H2O:
We All Need Water!
e3learn.org/ss1

1

Surface Water on the Map

Surface water flows across the Earth's surface into rivers, and then travels through pipes to your home. The Town of Queen Creek makes sure the water is clean and safe for you to use for drinking, washing, cooking, you name it!

Locate the Salt River and Verde River on this map of Arizona. **Color** each river a different color.

Look for the Colorado River. **Color** it in from Utah, through Arizona and the Grand Canyon, along the border with Nevada and California, all the way to Mexico. Wow, that's a long river!

Can you find the Central Arizona Project (CAP) canal? **Color** it all the way from Lake Havasu to Tucson. The CAP canal is like a man-made river that delivers Colorado River water using a 336 mile canal.

Rivers flow into man-made lakes called reservoirs. Dams hold back the water in reservoirs to save for future use and prevent flooding. **Circle** Roosevelt Lake, which is the largest reservoir along the Salt River.

Circle the Town of Queen Creek. Home sweet home!

NEVADA

UTAH

Grand Canyon

Colorado River

NEW MEXICO

Flagstaff

ARIZONA

Verde River

Lake Havasu

Central Arizona Project Canal (CAP)

Roosevelt Lake

Salt River

Colorado River

CALIFORNIA

Phoenix

Queen Creek

Tucson

MEXICO

Sing-A-Long with H2O:
Surface Water - It Does Flow!
e3learn.org/ss2

Go back to page 1. Can you find examples of surface water, like rivers and lakes? Label each with an **S.**

Groundwater Investigations

Water that is located underground is called **groundwater.** The rocky area underground that holds the groundwater is called the **aquifer.**

Try these fun investigations at school or at home with an adult to learn more about groundwater. Make some predictions and have fun making discoveries about groundwater!

Soak It Up!

Pour some water onto a sponge to show how water is stored underground in an aquifer. **What happened? How is an aquifer like a sponge?**

Water Rocks!

Make your own groundwater model to learn about tiny pore spaces underground. Put some gravel into a plastic cup, and pour some water into the cup. **What happened? Can you explain why?**

Pump It Up!

Use a straw to take a drink from a cup of water with ice to simulate pumping groundwater from the aquifer. **Draw the level of water in the cup before and after drinking. Can you explain what happened?**

Before   After
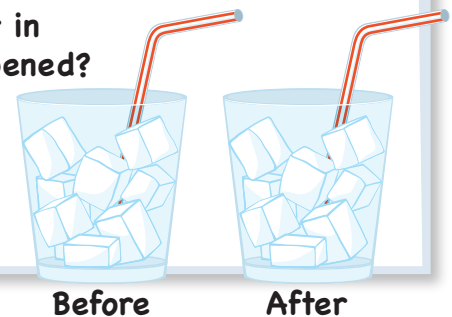
Sing-A-Long with H2O:
**Groundwater –
Pump It Up!**
e3learn.org/ss3

Go back to page 1. Label the groundwater with a **G.**

3

Reclaimed Water Secret Code

Hey kids! Use the secret code to learn about reclaimed water - water that is recycled after we use it. Write the correct letter in the line above each symbol. Some letters have already been filled in for you to help you get started.

a b c d e f g h i j k l m
n o p q r s t u v w x y z

U _ _ _ water goes down the drain.

It travels to the _ _ _ _ **e** _ _ _ _ _ treatment plant, where it is _ _ _ _ **n** _ _ so that it can be used again.

Some reclaimed water is used to water _ _ **a** _ _ _ , like grass on a golf course.

Some reclaimed water sinks down underground to _ _ _ _ _ _ **r** _ the _ _ _ **i** _ _ _ .
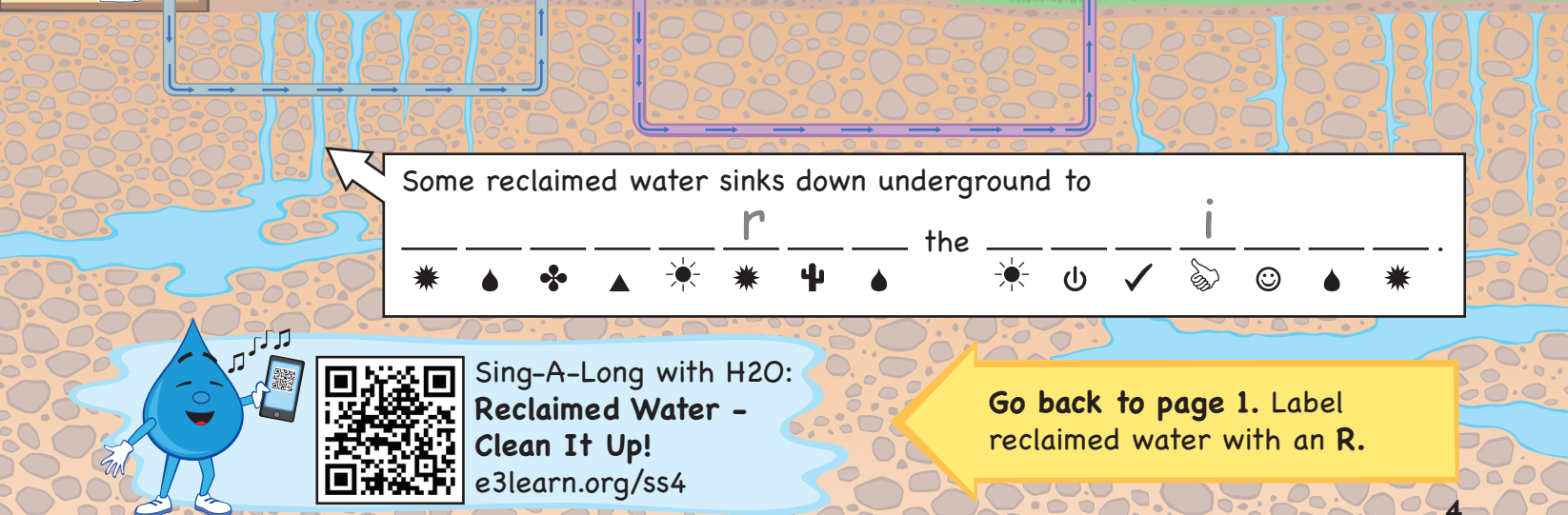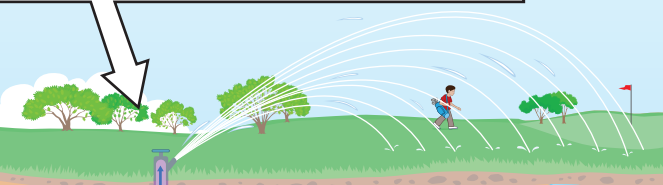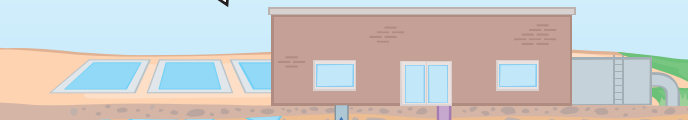
Sing-A-Long with H2O:
Reclaimed Water - Clean It Up!
e3learn.org/ss4

Go back to page 1. Label reclaimed water with an **R.**

Water Conservation Clues

There are so many ways we can all save water! Fill in the blanks in the clues below using the pictures and words, then complete the crossword puzzle on the next page using those clues. Each clue is a way to save water!

Across

2. Fix leaky faucets so

   ___ ___ ___ e ___ isn't wasted.

4. Run the ___ ___ ___ ___ ___ a ___ ___ ___ ___

   only when full.

7. Turn the water off when you

   ___ ___ ___ ___ dishes.

8. Turn off the f ___ ___ ___ ___ ___
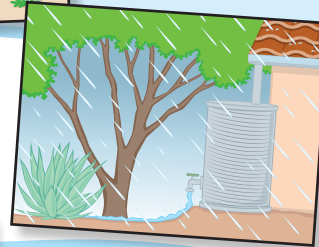
   when you wash your hands.

Down

1. Grow ___ ___ ___ ___ r ___ plants

   in your yard.
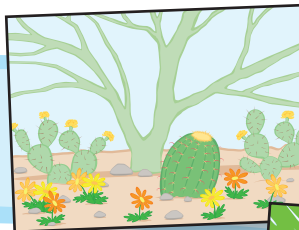
3. Harvest ___ ___ ___ n ___ ___ ___ ___ ___ .

5. Take a short ___ ___ ___ ___ ___ ___ .

6. ___ ___ ___ ___ ___ your teeth with the

   water turned off.

Water Conservation Crossword Puzzle

Here's one more puzzle just for you –
Find the letters using each colored clue.
What can you do each and every day
To conserve water – what do you say?

Sing-A-Long with H2O:
Let's Be Water Wise!
e3learn.org/ss5

Go back to page 1. For each of the hidden items that you circled, think about how you can be water wise when using them.

Sing-A-Long with H2O:
Our Water Sources! Can you name them all?
e3learn.org/ss6

Attention adults! Learn more about how you and your family can use water wisely, and discover additional educational resources for teachers and students!
e3learn.org/ssq

Answer Key

Page 4

Used
wastewater
cleaned
reclaimed
plants
recharge
aquifer

Page 5–6

Across:
2. water
4. dishwasher
7. wash
8. faucet

Down:
1. desert
3. rainwater
5. shower
6. Brush

Be Water Wise

Page 3

Soak It Up!: A sponge contains many tiny holes that can hold water, just like how an aquifer has lots of tiny spaces between the rocks, gravel, and sand underground. These tiny pore spaces hold our groundwater.
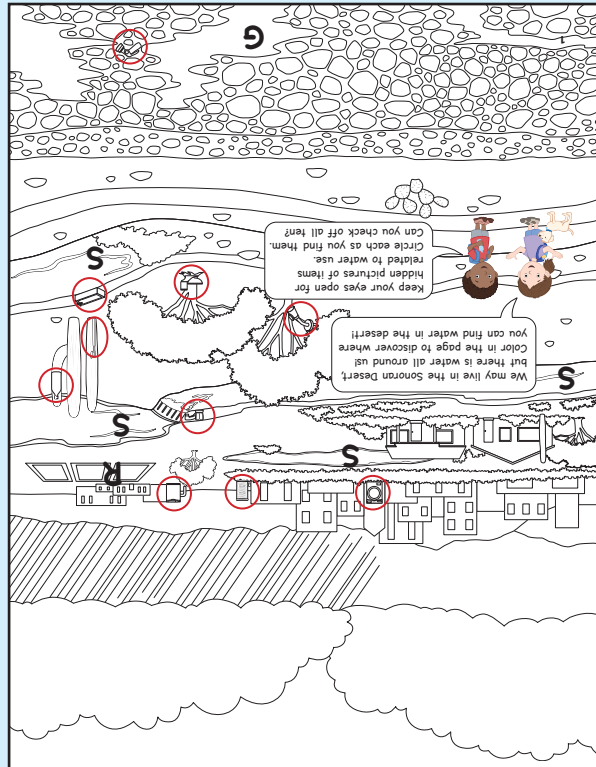
Water Rocks!: When you pour water into the cup, it sinks down and fills in the tiny spaces between the pieces of gravel. Water percolates down to our aquifer and becomes groundwater stored in tiny underground pore spaces.

Pump It Up!: Drinking water through a straw is like pumping groundwater up from the aquifer. As you drink, the water level becomes lower in your cup, just like how the water level goes deeper underground when water is pumped up from the aquifer.

Page 1

We may live in the Sonoran Desert, but there is water all around us! Color in the page to discover where you can find water in the desert!

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G

S

S

S

S

M