Healthy Water
Healthy Habits
Healthy People

Healthy Habits… Healthy People

Do "knot" pass it along

Where’s the soap?

Breaking the Chains of Transmission

Protecting the Source

The path to Healthy Water

Words of Wisdom

Illustrations by Peter Grosshauser
Healthy Habits

There are germs both healthy and unhealthy, all around us and inside our bodies. These germs, also called microorganisms, are invisible to us. They can only be seen through a microscope.

Some germs cause disease. These disease-causing germs can get into our bodies when we drink contaminated water or eat contaminated food.

Directions
Help Pedro prevent the spread of disease by using the healthy habits at the right of the page. For each section in the diagram, list the healthy habits that will stop the spread of disease.

A. Pedro's hands picked up germs from feces when he went to the bathroom.

C. Pedro ate food with dirty hands, spreading the germs from his hands to his mouth.

The Value of Water
Follow the story in the boxes at the corner of each page to find out how you can protect your water.

Once upon a time there was a clean water environment.
D. Pedro drank dirty water, washed food with dirty water or ate with dishes that had been washed in dirty water, thereby taking fecal germs into his body.

B. Feces entered Pedro’s water sources during heavy rains. This can also happen from dirty diapers or from poorly designed sewage systems (such as latrines next to rivers).

What is fecal-oral transmission?
Fecal-oral = feces-to-mouth. Germs from feces can get into your mouth through your hands, food or water.

But cities grew bigger, people collected non-recyclable trash and there were no toilets.
Do “Knot” Pass It Along

Directions
Find the differences in the two scenes below. Which one of the two scenes contains healthy habits? Check your answers on the back cover.

Germs are everywhere. Each time we touch something, we can spread germs—or pick up new germs. Washing your hands with soap and water frequently throughout the day can help wash these germs away.

The water’s environment became very dirty and unhealthy.
Pass It Along

Take a Hands Holiday!

For the rest of the day, send your hands on a holiday by avoiding touching anything with your hands. Use your hip to push open a door. Move a book aside with your elbow. Take note of the things you could not avoid contacting with your hands. These are some of the places where germs gather.

To keep from spreading germs, cover your mouth with the crook of your elbow or with a handkerchief when you sneeze or cough. If you do sneeze into your hand, make sure to immediately wash the germs away with soap and clean water.

People did not care about the water and threw trash into it.
Have a Handwashing Party!

Why use soap?
- Soap removes germs better than just rubbing your hands together with water.
- Washing your hands with soap cuts your risk of getting diarrhea almost in half!
- Nothing is simpler to get disease-causing germs off your hands than washing with soap and water.

1. Get Ready! Get Soap! — Roll up your sleeves and get your hands wet. Rub soap all over your hands until you have some bubbles or foam.

2. Scrub Those Hands! — Rub your hands together for at least 20 seconds. Sing the Hand Washing Song or count off 20 seconds to make sure you give the soap plenty of time to work! Be sure to get all the parts of your hands – front, back and your wrists.

Fernando and Claudia noticed that the water was not clean.
Where’s the Soap?

3. Rinse Germs Away! — Pour clean water over your hands. Use a pitcher or a Tippy Tap if you don’t have a spigot or tap water. Remember to use clean water when you rinse!

4. Shake It Dry! — Shake your hands dry or use a clean towel.

Hand Washing Song

Sing to the tune of La Cucaracha

Lava tus manos
Moja tus manos
Siempre usa el jabón

Frota tus manos
Por adelante
Por atrás, y los dedos

Y los pulgares
Bajo las uñas
Enjuágate las manos

Lava tus manos
20 segundos
Usa agua y jabón

They decided the community needed to make the water healthy for drinking and bathing.
How to Play

1. Use a small object, such as a bottle cap or a rock, as a game piece for each player.

2. Start from “Home” and move around the board clockwise.

3. Roll a die to determine who will go first. The player with the highest number starts the game. (If you do not have dice then you can use six uncooked beans which are colored on one side—toss the beans and count the number of beans with the color.)

4. Roll the die or throw the beans to determine how many spaces to move.

5. Follow the instructions on the space where you land. If you land on an open or blue space, stay there until your next turn.

6. Roll the die or throw the beans once per turn. After each player is finished, the next player to the left takes a turn.

7. If you are sent to the hospital you must return “Home” to the Start on your next turn.

8. The first player to make it from “Home” to “School” wins! You do not need to land directly on the “School” space to win.

Fernando and Claudia organized a water cleanup day with their school.
**Breaking the Chains of Transmission**

Play this game to learn about healthy habits!

- You forget to wash your hands before eating. Skip a turn.
- You throw trash into a trash bin. Advance 2 spaces.
- You drain water from the tires around your house to keep mosquitoes away. Advance 2 spaces.
- You used clean and covered containers to store your household water. Advance 2 spaces.
- You wash your hands after using the bathroom. Advance to the next blue space.
- Your class organizes a water cleanup day in the community and picks up trash. All players advance to the next blue space.
- You forgot to wash your hands after using the latrine and get diarrhea. Go to the Hospital.
- You washed your hands after using the bathroom. Advance to the next blue space.
- You used clean and covered containers to store your household water. Advance 2 spaces.
- They picked up trash and created signs to remind people to throw trash in bins.
Directions

The scene below has five healthy habits and three habits which need to be fixed. Can you find the healthy habits? How can you fix any problems? Use the Healthy Household Water Checklist to help guide you. Check your answers on the back cover.

They created posters about how to deposit garbage in the correct bins for disposal or recycling.
Protecting the Source

Fix any leaking faucets or constant running water.

Turn off the faucets between washing and watering so as not to waste water.

Purify all drinking water in the house through boiling, chemical treatment or SODIS (solar disinfection).

Place all trash in trash bins. DO NOT ALLOW TRASH TO ENTER ANY WATER SOURCES!

Store water in clean and covered containers.

Build a rain harvesting system at your house in order to conserve and gather healthy water.

Maintain a healthy sewage system. Do not throw paper, trash or diapers into the toilet.

Then the school children created a song about keeping the water clean for the community.
Directions

1. Start at the faucet at the bottom of the page and follow the steps along the yellow path to learn about healthy drinking water.

2. Answer any questions along the path. Write the large blue letter at each step along the path into the corresponding numbered space in the secret phrase at the top of the page.

3. Once you have completed the path to healthy water you will have all of the letters for the secret phrase.

Next, purify your drinking water. What are the three ways to purify water? (continue to steps 2-4)

1. **F**irst, collect water in a clean container.

2. **B**oil to purify it.

3. **P**urify **W**ater with SODIS (solar disinfection).

4. **A**dd chemicals to treat water.

5. **S**tore water in a clean container.

Soon everyone was protecting the water.
What should you do before eating or drinking? Go to step 7 to find out!

What is the secret phrase? Check your answer on the back cover.

1. Befo Re taking water from a container, you should wash your hands with soap and water.

2. Go to step 7 to find out!

3. Enjoy healthy drinking water.

4. The best container to store water in has a cover and a tap at the bottom.

5. Enjoy healthy drinking water.

6. Fernando, Claudia and their families had healthy water for drinking and bathing.

7. Enjoy healthy drinking water.
The proverb about a water jug (pictured below) teaches an important lesson to us. When interpreted it means that nothing lasts forever. Unless we conserve and protect our water sources they could disappear.

List three ways you can protect and conserve your water source so that you and your family may enjoy healthy water for many, many years.

- Turn off faucets when finished with water
- Throw trash into bins
- A jug carries water until its handle breaks off.

The water was a clean environment again.
Test your water wisdom
Check your answers on the back cover.

1. What are acceptable methods to purify your drinking water?
   a. Boiling it for 3 minutes
   b. Using solar disinfection, known as SODIS
   c. Using chemical treatment such as chlorine
   d. all of the above

2. You should wash your hands after which of the following activities?
   a. Using the latrine
   b. Cooking rice
   c. Eating fruit

3. Which of the following is a common place to pick up germs or pass them along on your hands?
   a. Latrine
   b. Door handle
   c. Handshake
   d. All of the above

4. When you wash your hands, soap molecules “grab” onto dirt and germs, allowing water to rinse them away. True or False?

5. After you’ve lathered up with soap, how many seconds should you spend vigorously washing your hands?
   a. At least 20
   b. Not more than 30
   c. 60

6. Which activities require purified water?
   a. Drinking and brushing teeth
   b. Washing dishes and silverware
   c. Washing fruits and vegetables that will be eaten raw
   d. All of the above

7. A water source is a person who sells bottled water. True or False?
The scene on the left shows habits that need fixing circled in blue. The scene on the right shows healthy habits circled in red.

Healthy Habits... Healthy People, pages 2-3
1. Washing hands
2. Washing hands
3. Dispose of dirty diapers in trash bins
4. Purifying water, washing fruits and vegetables with clean water

*In addition to the habits mentioned here, keeping a clean house can help stop the spread of diseases.

Do “Knot” Pass it Along, pages 4-5
The scene on the left shows habits that need fixing circled in blue. The scene on the right shows healthy habits circled in red.

Protecting the Source, pages 10-11
Healthy Habits are circled in red; habits that need fixing are circled in blue.

Healthy Habits
- Purifying water using SODIS, chemical (chlorine) treatment and boiling water
- Storing water in a clean, covered container
- All trash is contained in a covered trash bin
- The house has a covered rainwater harvesting system

Habits to fix
- Leaking shower head
- Throwing trash in the toilet
- Letting the water run while washing

How can you keep water sources healthy for the future?
- Throw trash into a trash bin
- Turn off faucets when you are finished with the water
- Dispose of dirty rinse water away from water sources
- Clean up trash around a river
- Maintain latrines away from water sources
- Do not allow feces to enter water sources

Test of Water Wisdom, pages 14-15
1. All of the above
2. a. You should wash your hands AFTER using the latrine and BEFORE cooking rice or eating. However, if you touch raw meat be sure to wash your hands afterwards, as well. Remember, you can always wash your hands anytime!
3. All of the above
4. True. Soap molecules are attracted to dirt and germs on one end and water on the other end, allowing the soap to “grab” molecules and wash them away.
5. a. At least 20
6. All of the above
7. False. A water source is the supply of water for a community, such as a river, ground water or rain water.

Answer Key

The Path to Healthy Water, pages 12-133
The secret phrase is: WATER is LIFE

Test of Water Wisdom, pages 14-15
1. a. You should wash your hands AFTER using the latrine and BEFORE cooking rice or eating. However, if you touch raw meat be sure to wash your hands afterwards, as well. Remember, you can always wash your hands anytime!
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