



Your Water World

LESSON PLAN

Overview:

Water is in limited supply, but it is critical for all survival. Without it, life would not exist! This course focuses on three important areas.

1. Lesson One, Water Consumption – The Water You Drink
2. Lesson Two, Water Systems – How You Get Your Water
3. Lesson Three, Water Conservation – Becoming a Friend to Water

Learning Objectives - when you are finished with these three modules, you will be able to:

1. Discuss water's journey from its source to your home
2. Calculate the amount of water you should drink daily, based on your weight
3. Explain why it is better to drink water than soda or other fluids
4. Describe how water utilities keep your water safe
5. Find ways to save water in your home and neighborhood

Materials Needed:

- PowerPoint presentation
- Note-taking materials, participant handouts, and scenario-exercises

Agenda:

0:00 - 0:02 – Introduction

0:03 - 0:18 – Lesson 1: Water Consumption – The Water You Drink

0:19 - 0:34 – Lesson 2: Water Systems – How You Get Your Water

0:35 - 0:50 – Lesson 3: Water Conservation – Becoming a Friend to Water

0:51 - 0:58 - Summary and Q & A

0:59 - 0:60 – Thank you, additional resources and information

Evaluation:

Optional Teacher Quiz



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Activities for Module 1, Water Consumption – The Water You Drink

How Many 8 ounce Cups of Water are in Your Body?

- | | |
|---|--|
| 1. How much do you weigh in pounds? | 1. I weigh "X" pounds |
| 2. What is 60% of that? | 2. "X" pounds x 60% = ? pounds of water |
| 3. There are approximately 8 pounds in a gallon; divide #2 answer by 8 | 3. ? pounds ÷ 8 = ?? gallons of water |
| 4. Multiply #3 answer by 16 (there are 16 cups in a gallon) | 4. ?? gallons x 16 cups = ??? cups of water in your body |
| 5. The answer to #4 tells you how many 8 ounce cups of water are in your body | 5. How many 8 ounce cups of water are in YOUR body? |

1. I weigh _____ "X" _____ pounds.
2. "X" pounds x 60% = ? pounds of water
3. ? pounds of water ÷ 8 gallons of water = ??
4. ?? gallons of water x 16 cups = ??? cups of water in your body
5. There are ??? cups of water in my body.

So....how many cups of water are in your body?

Tap vs. Bottled Water: Yearly Value

Drinking 5 gallons of water a week for a year:

- Tap water: \$2.60 per year
- Bottled water: \$312.00 per year

What do you save per year if you drink tap water instead of bottled water?

- **\$309.40**
- What else could you buy with your savings instead of bottled water?

1. 5 gallons of tap water a week for a year costs = _____ per year
2. 5 gallons of bottled water a week for a year costs = _____ per year
3. #1 minus #2 per year is equal to.....
4. \$ _____

Drinking tap water saves you \$ _____ per year!

\$309.40 Extra Dollars a Year???

What would *you* do with \$309.40 extra dollars a year?

1. Treat your little brother to a movie once a month for a year
2. Order one medium pizza & breadsticks every month for a year
3. Buy some new school clothes for \$309.40
4. Buy two tickets to a professional NBA game in your home town
5. Put it in the bank and add it to your college savings account
6. What else????

What could YOU spend your extra money on?

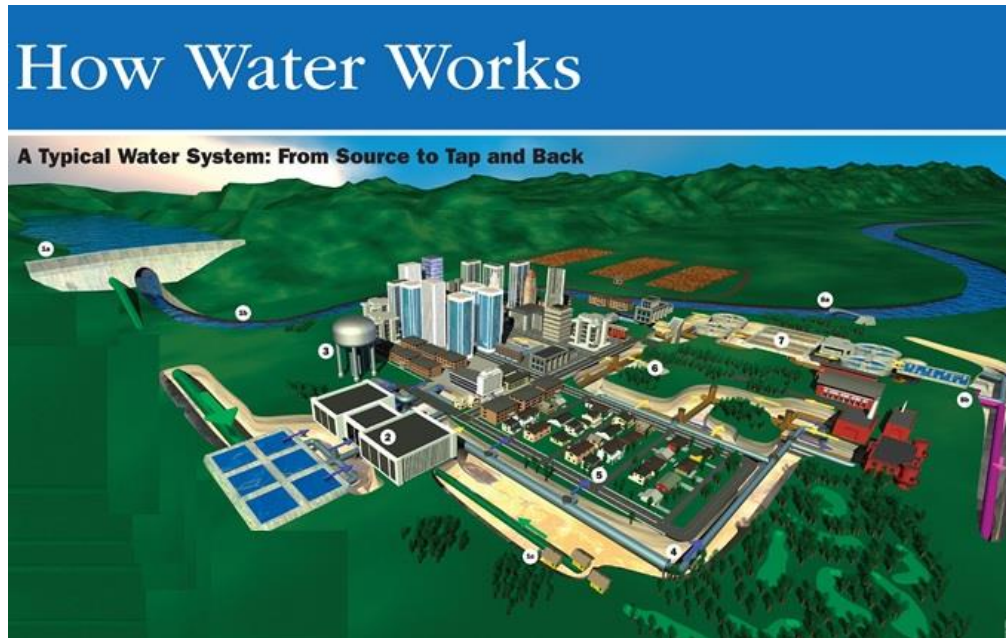
1. _____
2. _____
3. _____
4. _____



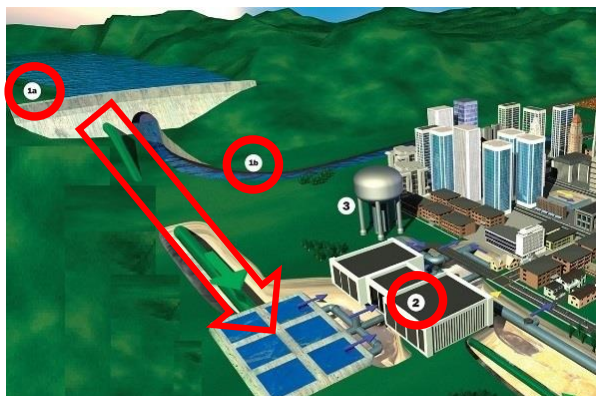
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Activities for Module 2, Water Systems – How You Get Your Water



A Typical Water System: From Source to Tap and Back



Water Treatment



Water Storage and Distribution



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Activities for Module 3, Water Conservation – Becoming a Friend to Water

Saving Water in Your Home

Be a friend of water at home:

- Take shorter showers or fewer baths
- Ask parents to water the lawn less often
- Check the toilets to make sure they're not running or leaking
- Don't leave the faucet running



Saving Water in the Neighborhood

Be a friend of water in your neighborhood:

- Don't use weed killer on your lawn
- Pull weeds (don't spray with chemicals)
- Pick up trash you see
- Clean up after your dog (animal waste gets into our water supply)



How Can You Save Water In Your Home?

How Can You Save Water In Your Neighborhood?

Saving Water for Life

- One person can make a difference
- You are not alone – others will join/follow
- Everyone has a stake in the future of our world's water supply
- You can create a better world for future generations



How could YOU become a "Friend to Water"?

1. _____
2. _____
3. _____
4. _____

How Can You Save Water For Future Generations?



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Additional Resources:

- DrinkTap.org: <http://www.drinktap.org>
- How Water Works: <http://www.awwa.org/resources-tools/water-knowledge/how-water-works.aspx>
- Only Tap Water Delivers: <http://www.awwa.org/resources-tools/public-affairs/communications-tools/only-tap-water-delivers/only-tap-water-delivers-materials.aspx>
- Rocky Mountain Section of the American Water Works Association: <http://rmsawwa.org/getintowaterco/index.html>
- United States Environmental Protection Agency: <https://www.epa.gov/students>
- Work for Water: <http://www.awwa.org/resources-tools/water-knowledge/how-water-works.aspx>
- Aquapedia, Water Education Foundation: <http://www.watereducation.org/aquapedia>
- GetWise.org: <http://www.getwise.org>
- H2O for Life: <http://www.h2oforlifeschools.org/>
- Project WET (Water Education for Teachers): <http://www.all-water.org/index.html>
- United States Geological Survey (USGS), Learn About Water: https://www.usgs.gov/centers/sa-water/science/learn-about-water?qt-science_center_objects=1#qt-science_center_objects
- The Water Page: <http://www.thewaterpage.com/>
- Water Research Foundation: <http://www.waterrf.org/Pages/Index3.aspx>