





TEACHER GUIDE

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STUDENT HANDOUTS

- Reading Comprehension
- 1. What Is Fresh Water?

 2. Where Is Fresh Water?

 3. How Climate Change Can Affect Fresh Water

 4. How The Amount Of Fresh Water Could Change

 5. How The Purity Of Fresh Water Could Change

 7. Conservation: What We Can Do

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✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5773 Conservation: Fresh Water Resources
- Enter pass code CC5773D for Activity Pages



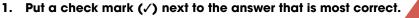


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V		•

U Before You Read

NAME:

How The Purity Of Fresh Water Could Change



a)	In which of these places do only half the people have access to safe drinking
	water?

O a A	frica
-------	-------

- O B Europe
- **c** North America
- **D** South America

b) All of these are substances that often pollute fresh water, except:

- O **a** pesticides.
- O **B** fertilizer.
- O c raw sewage.
- O **p** greenhouse gases.
- c) What is the greatest problem caused by polluted water?
 - O A It kills crops.
 - O **B** It spreads disease.
 - O **c** It cannot be used for v
 - D It rusts water pipes.

2. Circle the word TRUE if the statement is TRUE or Circle the word FALSE

- a) About one person in a hundred does not have access to safe drinking water.
- bal temperature will increase the need for crop irrigation. **b)** Increasing
- TRUE g into streams can kill fish.
- have sewage treatment plants.
- TRUE **FALSE**

FALSE

- Hundreds of millions of people do not have a faucet in their home.
 - **TRUE FALSE**
- Fresh water supplies can sometimes become salty.

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4	

After You Read

NAME:

How The Purity Of Fresh Water Could Change

pesticide

1. Fill in each blank with a word from the list.

bacteria

	The state of the s
a)	and in runoff from crops can
	endanger river habitats.
b)	in drinking water can spread disease rapidly.
c)	Higher temperatures will increase the amount of water needed for
d)	If too much water is pumped from a well near the ocean, may seep into the well water.

2. Put a check mark (/) next to the answer that is most correct.

- a) Pesticides polluting river water usually come from:
 - O **a** atmosphere,
 - O **B** farmers' fields.
 - O c sewage plan D vehicle ex
- b) Irrigating a field for many years can make the soil less fertile by causing a
 - buildup of:
 - O A bacteria O B Tertiliz
 - pesticide.
 - D

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- c) Which of these changes will make it more difficult to solve all water purity
 - O **A** increasing human population
 - O **B** melting polar ice caps
 - O **c** rising ocean levels
 - O **p** running out of oil



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NAME:





How The Purity Of Fresh Water Could Change

bout one person in four, worldwide, does not have access to safe drinking water. In Africa, only about half of the people can get safe

water. It is hard to give an exact number of people without access to safe water because the water some people have "access" to may be miles away. We would not call that access.

Water may be unsafe for a number of reasons. Water may contain bacteria and viruses that cause disease, it may be polluted by pesticides and fertilizer in rung from crop **irrigation**, or it may contain toxic chemical from factories. Also, water that was once fresh m become too salty for drinking or irrigation.

Climate change may increase water pollution in th future. Higher temperatures will increase the need for irrigation, which will carry more pesticides and fertilizer into freshwater sources. Fertilizer in fresh water is



Irrigation can also make ground water more salty. When the irrigation water evaporates, it leaves any salt it contains behind in the soil. In places near the ocean, underground water: may become salty if too much is pumped out. If the water table sinks too low, it can be replaced by salt water that seeps in from the ocean.



entity two reasons that water may be unsafe to drink.

ems will be made worse by increasing population. More population means more irrigation for more crops, more water pumped from underground, and more factories. Some of these problems can be solved by purifying polluted water in treatment plants. The problem is that the countries most in need of more pure water are usually those that do not have enough money to build treatment plants.

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NAME:





How The Purity Of Fresh Water Could Change

a) Explain how crop runoff that carries fertilizer into streams can harm fish that live there.

3. Answer the questions in complete sentences.

b)	Describe one way that increasing human population can make the problem of unsafe water worse.

Extensions & Applicat

A small farming village is near a stream and also near the ocean. Crops are planted near the stream. People get their water from the stream, except during the dry season, when they get it from a well. The village is not connected to a sewage system or a water system.

Describe three ways that the villagers' water supply could become unfit for drinking.

a)			
•			
b)			
•			

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Activity One

Build a Model of the Water Cycle

This is what you will need:

- a large glass jar with a lid
- a few tablespoons of salt
- a scale
- a typical kitchen.

This is what you will do:

- 1. Put a couple inches of cold water and the salf into the jar and stir until the salt
- 2. Taste the salt water.
- 3. Screw the lid on tight.
- **4.** Weigh the jar.
- 5. Fill the kitchen sink with warm water from the tap.
- 6. Place the jar in the warm water and leave it there for ten minutes.
- 7. Weigh the jar again.
- **8.** Place the jar in the refrigerator. (If there is not enough room in the refrigerator, cool the jar by running cold water over it.).
- 9. Observe any changes inside the jar.
- 10. Dry the jar with a towel, and weigh it again.
- 11. Taste any beads of water that have collected on the inside of the jar.

Which parts of the water cycle happened inside the jar?

When did each water cycle process happen?

Did the weight change? Why or why not?

ompare the taste of the salt water and the beads of water and explain your observations.

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NAME:

Comprehension Quiz



Circle the word **TRUE** if the statement is TRUE **or** Circle the word **FALSE** if it is



- 1. The Mississippi River is fresh water.
 - **TRUE FALSE**
- 2. Most fresh water on Earth is either liquid or gas. **FALSE TRUE**
- 3. Burning fossil fuels releases greenhouse gases.
 - **FALSE TRUE**
- An aquifer is the device that controls water flow in a drip irrigation system. FALSE
- Melting polar ice caps will increase Africa's supply of fresh water.
 - **FALSE**
- **6.** One person in four, worldwide, does not have access to safe drinking water.
 - **TRUE FALSE**
- 7. Desalination is another term for gray **TRUE FALSE**

Part B

Put a check mark (/) next to the answer that is most correct.



- a) Water in the ocean is changed into water vapor in the air by:
 - O a condensation.
 - O B evaporation O c precipitation
 - O **p** respiration.
- c) Which of these continents has the most serious water shortage problem?
 - O **A** Africa
 - O B Europe
 - O **c** North America O **p** South America
- b) Which of these is a greenhouse
 - gas?
 - O **A** nitrogen
 - O B oxygen O c hydrogen

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- O **D** carbon dioxide
- 18

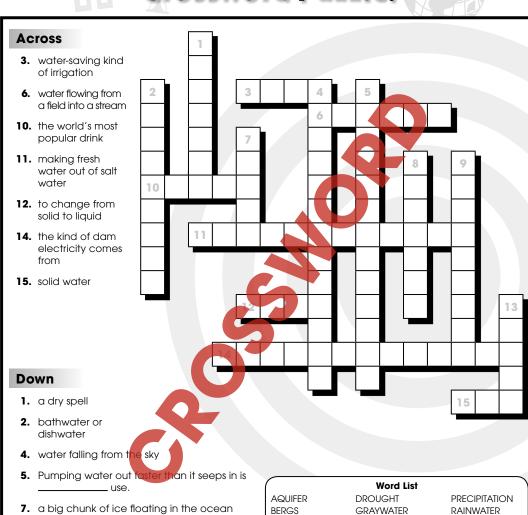
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SUBTOTAL:



Crossword Puzzle!

NAME:



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8. an undergroud layer of water

9. Some people collect it from their roof

13. Water goes round and round in a



(Note: For answers of more than one word, do not put a space between the words.)

CYCLE

DRIP

DESALINATION

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RUNOFF

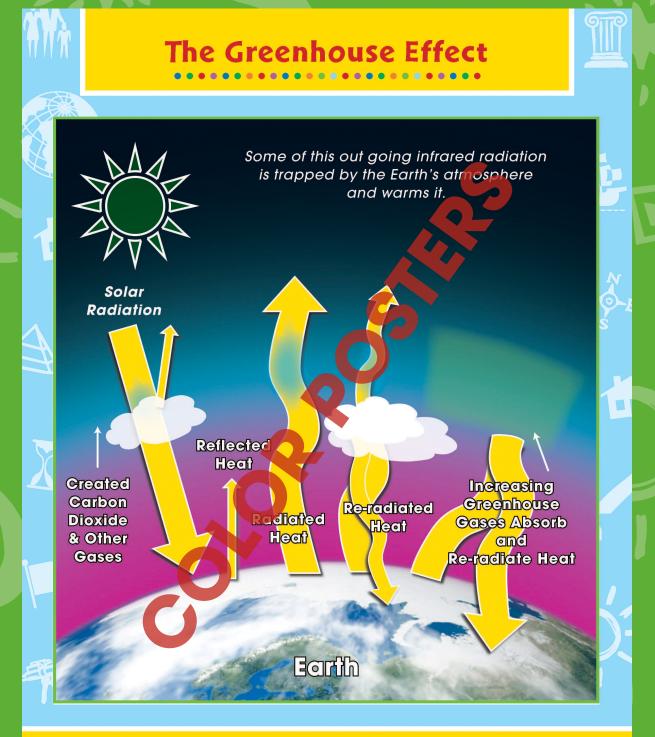
WATER

UNSUSTAINABLE

HYDROELECTRIC

ICE

MELT



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NAME:	





How The Purity Of Fresh Water Could Change

2	Answer the	augadiana i			
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a)	Explain how crop runoff that carries fertilizer into streams can harm fish that live there
b)	Describe one way that increasing human population can make the problem of unsafe water worse.

Extensions & Applications

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Describe three ways that the villagers' water supply could become unfit for drinking.

a)			
b)			
c)			





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3.

- Pertilizer
 encourages
 water plant
 growth. When
 water plants
 die and decay,
 oxygen that fish
 need is removed
 from the water.
- More people
 will cause more
 sewage to enter
 drinking water.
 More people
 will irrigate more
 crops, increasing
 the amount of
 esticides that
 enter drinking
 water. Etc.

Evaporation, and condensation (and perhaps runoff) happened in the jar.

Evaporation happened when the jar was heated, and condensation (and perhaps runoff) happened when the jar was cooled.

The weight did not change because the water was recycled and did not leave the jar (answers will vary).

The beads of condensed water did not taste salty.



The temperature was higher inside the jar.
Light came in, heated the inside, and heat was trapped.



Extensions & Application

Answers wil

Sewage could pollute if fight over. the water. (Answers to

Disease bacteria could enter the water.

Salt water could seep into the well.

Pesticides could run into the stream.

Fertilizer could run into the stream.



Historians tend to believe water conflicts will not lead to wars. Some historians say

fight over. (Answers will vary.) The Jordan, the Nile, the Colorado etc.

(14)

(Answers will vary.)





ER KEY