



TEACHER GUIDE

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STUDENT HANDOUTS

• Reading Comprehension	
1. <i>What Is Fresh Water?</i>	
2. <i>Where Is Fresh Water?</i>	
3. <i>How Climate Change Can Affect Fresh Water</i>	
4. <i>How The Amount Of Fresh Water Could Change</i>	
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EASY MARKING™ ANSWER KEY 21

MINI POSTERS 23

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- Enter item CC5773 – Conservation: Fresh Water Resources
- Enter pass code CC5773D for Activity Pages



How The Changes In Fresh Water Could Change Our Lives

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

- a) In the future, many people will have to drink salt water instead of fresh water.
TRUE FALSE
- b) After the ice caps have melted, everyone will have plenty of fresh water.
TRUE FALSE
- c) Most northern countries have enough water.
TRUE FALSE
- d) Countries are always happy to share their water with neighboring countries.
TRUE FALSE
- e) World population increase will make water problems worse.
TRUE FALSE

2. Show how changes in fresh water could change people's lives by completing each sentence with the word "increase" or the word "decrease."

- a) Each person's share of Earth's fresh water is going to _____.
- b) Diseases caused by drinking unsafe water are likely to _____.
- c) Arguments about water are likely to _____.
- d) The price of water is likely to _____.
- e) The need for water to irrigate crops will _____.
- f) The amount of water in underground aquifers will _____.



How The Changes In Fresh Water Could Change Our Lives

A Most everyone in the United States has all the water they need. We tend to think of water as something that is just there to be used, like air. But people in many parts of the world do not have enough water, and, some day, we may run short of water too.

We could look at water this way: There is a certain amount of fresh, pure water in the world. Everyone should have access to an equal share of that water. The number of people is increasing faster than the amount of fresh water, so everyone's share is getting smaller. This change will cause changes in the lives of many people.

One problem is that the water is not in the places where it is needed most. This could lead to plans for moving water from places where there is extra water to places where it is needed. It is at least as likely that people will move to the water. It will also surely lead to an increase in the number of deaths caused by drinking unsafe water and to deaths from poor nutrition because there is not enough water to grow crops.



The area north of China is called Siberia. Many places in Siberia get about the same amount of rainfall as northern China. Why does northern China have a shortage of water but Siberia does not?



How The Changes In Fresh Water Could Change Our Lives

1. Use the words to fill in the blanks.

Canada India Polar bears hydroelectric irrigation river

- a) Countries are likely to have disagreements over water if they are located on the same _____.
- b) _____ has a shortage of fresh water.
- c) _____ has more water than it needs.
- d) _____ have become endangered by the reduced amount of sea ice.
- e) Increased use of water for _____ will mean less water will be available for _____ dams.

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

- a) Which of these countries has the greatest water shortage problems?
 A United States.
 B Russia.
 C China.
 D England.
- b) Which of these factors has the least effect on a country's supply of fresh water?
 A population.
 B rainfall.
 C sea level.
 D national wealth.
- c) Which source of electrical energy is most affected by increased demand for fresh water?
 A hydroelectric power.
 B solar power.
 C nuclear power.
 D wind power.

How Changes In Fresh Water Could Change Our Lives

3. Answer the questions in complete sentences. Give **two** reasons why people in Africa have more of a problem supplying their need for safe drinking water than do Americans.

- a. _____
- b. _____

Extensions & Applications

The map shows a river running through two imaginary countries, then into the ocean.



Explain how a conflict between the two countries could arise if Upper Goobia built a dam at Goober City.

- _____
- _____
- _____



Activity Two

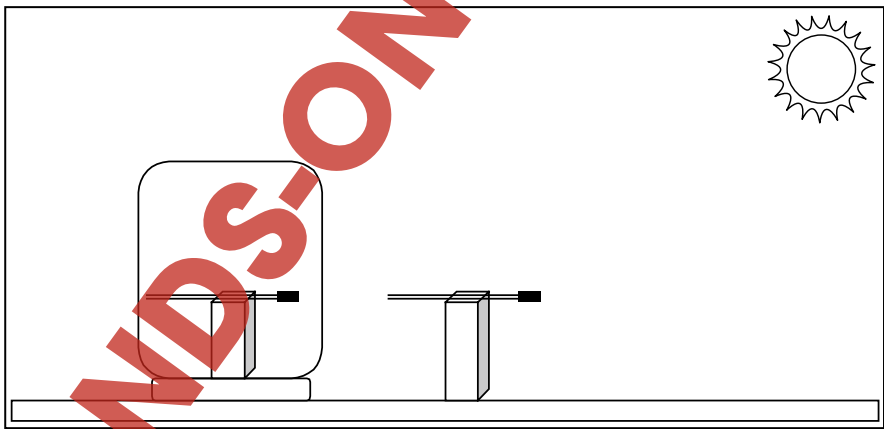
Build a Greenhouse

For this activity you will need:

- A large glass jar, a glass goldfish bowl, or a glass aquarium.
- Two thermometers
- Any two flat-topped objects about half as high as the jar, bowl, or aquarium.

This is what you will do:

1. Take all your materials outside on a sunny day.
2. Read and record the temperature on one of your thermometers.
3. Arrange your experiment as shown below.



4. Read the thermometers every 15 minutes for two hours.

How did the temperatures inside and outside the glass container compare? Explain your observations in terms of the greenhouse effect.

NAME: _____



Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

atmosphere conservation drip fossil greenhouse melt salt
 berg cycle drought fuel ice precipitation unsustainable
 climate desalination evaporation gas irrigation runoff vapor



NAME: _____



Part C

Comprehension Quiz

Answer each question in complete sentences.

1. Explain what "unsustainable" withdrawal of water from an aquifer means. 3

2. Describe the "greenhouse effect" as it applies to Earth's atmosphere. 3

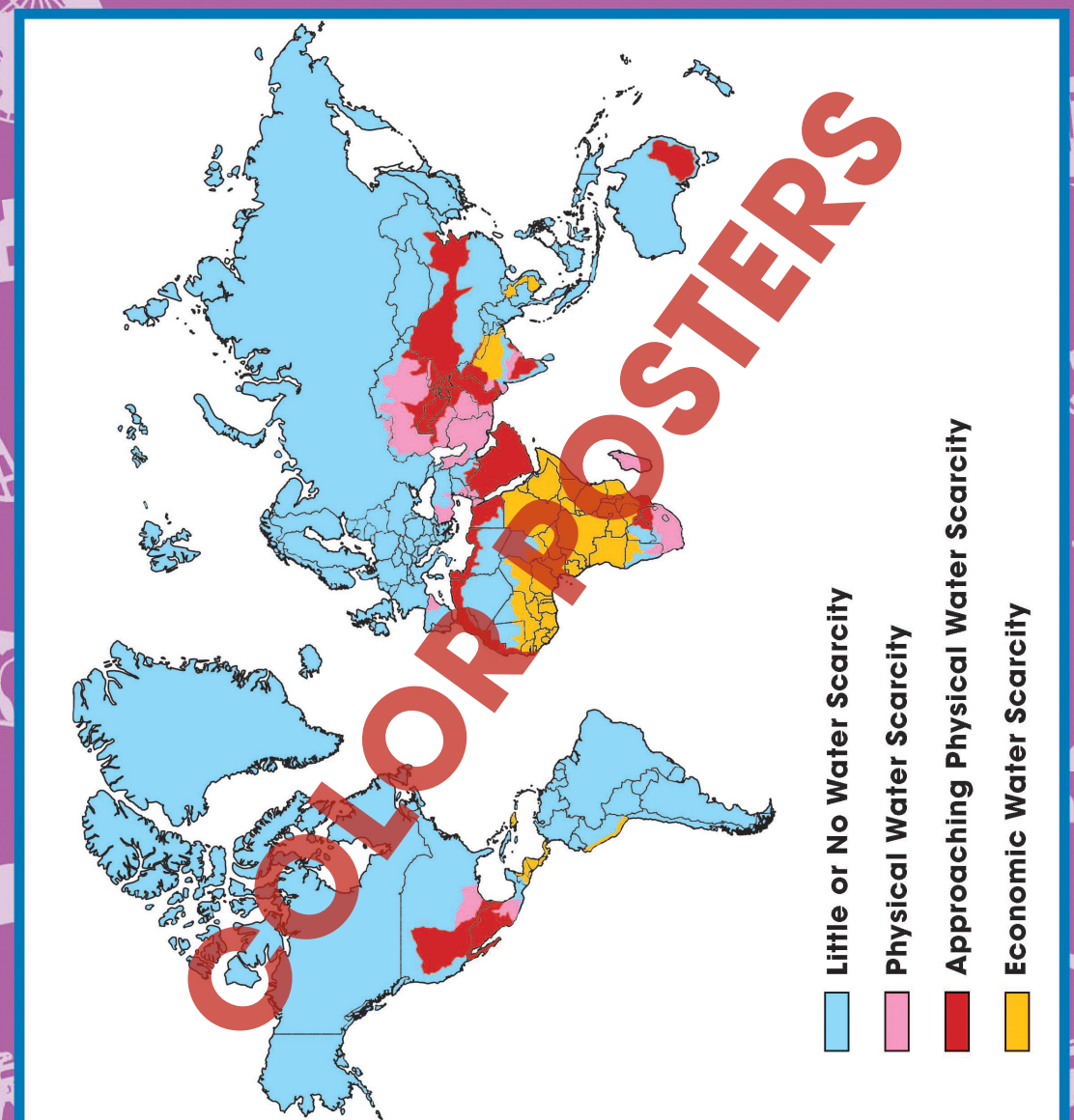
3. Describe one problem that can result when irrigation water for crops runs into a river. 3

4. Why does a drip irrigation system use less water than a sprinkler system? 3

5. How is the increasing number of people on Earth related to fresh water shortage? 3

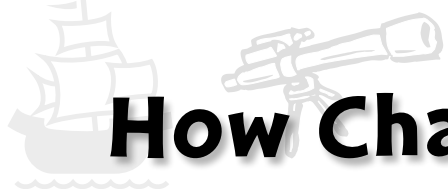
SUBTOTAL: /15

Areas of Water Scarcity



NAME: _____

After You Read 



How Changes In Fresh Water Could Change Our Lives

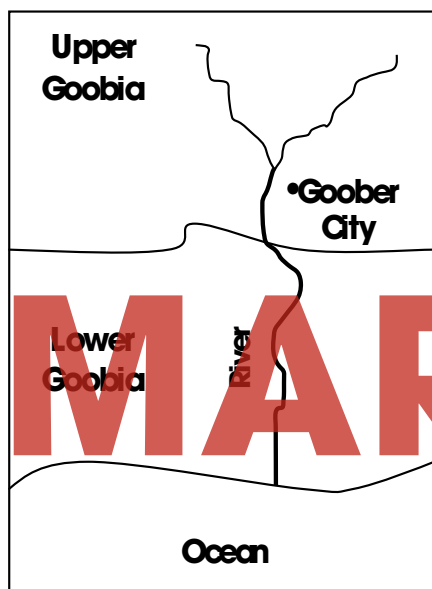
3. Answer the questions in complete sentences. Give **two** reasons why people in Africa have more of a problem supplying their need for safe drinking water than do Americans.

a. _____

b. _____

Extensions & Applications

The map shows a river running through two imaginary countries, then into the ocean.



EASY MARKING ANSWER KEY

Explain how a conflict between the two countries could arise if Upper Goobia built a dam at Goober City.

3.

- a) (Answers will vary.) Many parts of Africa have little rainfall.
- b) Many African countries cannot afford to build sewage treatment plants. 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.

13

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

14

Extensions & Applications

Upper Goobia could claim that the water is all theirs because the river starts in their country. Lower Goobia could claim that some of the water is theirs because they have always depended on the river as their source of fresh water.

- Historians tend to believe water conflicts will not lead to wars.
- Some historians say water is too important to fight over.
- (Answers will vary.) The Jordan, the Nile, the Colorado etc.

15

(Answers will vary.)

11

16

