





TEACHER GUIDE

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STUDENT HANDOUTS

- Reading Comprehension
- What Is Fresh Water?
 Where Is Fresh Water?
 How Climate Change Can Affect Fresh Water
 How The Amount Of Fresh Water Could Change
 How The Purity Of Fresh Water Could Change
 How The Changes In Fresh Water Could Change Our Lives
 - 7. Conservation: What We Can Do

 8. Graphic Organizer

 Hands-on Activities

 Crossword

 Word Search

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✓ 6 BONUS Activity Pages! Additional worksheets for your students

EASY MARKING™ ANSWER KEY

- 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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		f)	0	TRUE cean levels ar	FALSE e rising.						
				TRUE	FALSE	X					
		g)	Ris	sing temperati TRUE	re causes	water to e	vaporat	te more	slowly.		•
•		h)	Us	ing gasoline c		ases gree	nhouse	gases.			•
	•	• • •	• •	TRUE	FALSE		• • • •	• • • •	• • • •	• • • • •	•
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Reading Passage

NAME:

How Climate Change Can Affect Fresh Water



ou may have heard of the greenhouse effect.

It is the greenhouse effect that makes the inside of a greenhouse warm enough to grow flowers and vegetables when it is snowing outside. Sunlight passes easily through the greenhouse windows and warms the soil inside. The warm soil gives off heat, but heat does not pass through the glass as easily as the light did. The result is a higher temperature inside than outside.

The planet Earth also has a greenhouse effect. Some of the gases in the atmosphere actili the glass in greenhouse winds



But Earth may be in for too much of a good thing. The greenhouse effect is becoming greater, and Earth is becoming warmer. This is because people have



When a car is left in the sun with the windows closed, the inside gets hotter than the outside temperature. Explain how this happens in terms of the greenhouse effect.

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NAME: _





After You Read How Climate Change Can **Affect Fresh Water**

3. Answer the questions in complete sentences.

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7 N	L Describe one way that Farth's clima	te is anina to chan		Man ne easily prealatea
~,	Describe one way that Earth's clima	TO 10 goiling to ortal in	y II I CA	i bo casily prodicted.

b) Describe one way that Earth's climate is going to change that is difficult to predict. The uncertainty can be about which way the change will take place or which places will be affected or both.

a) Explain why the moon

The greenhouse effect is a very important factor in determining the climate on the

b)	Explain how the greenhouse effect causes higher temperature. Give a general

explanation the planet E	that could apply to either a greenhouse where plants are grown or to arth.

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a) Average

b)

Sea leve

c) Amount of ice at the North and South Poles.

d) Amount of liquid fresh water _

e) Amount of liquid salt water _

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Activity Three

Water Fights

Write a report about water conflicts

The most recent war over water is believed to have taken place 4500 years ago between the kingdoms of Lagash and Umma. Both kingdoms were located in what is now the country of Iraq. Since then there have been many arguments about water rights, but no all-out wars, with the disagreements usually settled with treaties.

Write a report about water conflicts between countries over water. Ask your teacher or a history teacher where you can find books or other sources of information about water conflicts. Try searching in libraries or the internet for "water wars," "water treaties," and "Lagash and Umma." Rivers that have a long history of conflicts and agreements are the Nile, the Jordan, and the Ganges. You might also look for a history of conflicts within the United States, especially involving the Colorado River.

These are some questions you can try to answer in your report:

- What are the chances of a war over water in the future?
- Why have there been so few wars over water in the past?
- Which rivers are most likely to be a source of conflict in the near future?

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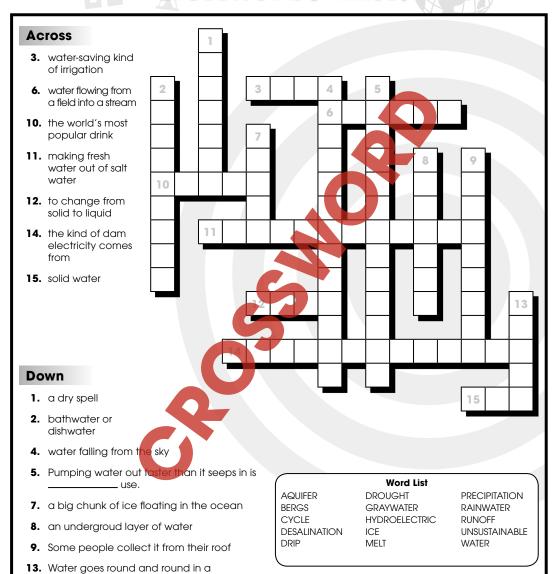
Part C Comprehension Quiz Answer each question in complete sentences. 1. Explain what "unsustainable" withdrawal of water from an aquifer means. 3. Describe the "greenhouse effect" as it applies to Earth's atmosphere. 3. Describe one problem that can result when irrigation water for crops runs into a river. 4. Why does a drip irrigation system use less water than a sprinkler system? 3. How is the increasing number of people on Earth related to fresh water shortage?



After You Read 🔷

NAME: ___

Crossword Puzzle!



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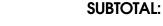


(Note: For answers of more than one word, do not put a space between the words.)

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Areas of Water Scarcity





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How Climate Change Can Affect Fresh Water

- 3. Answer the questions in complete sentences.
 - a) Describe one way that Earth's climate is going to change that can be easily predicted.
 - **b)** Describe one way that Earth's climate is going to change that is difficult to predict. The uncertainty can be about which way the change will take place or which places will be affected or both.

Extensions & Applications

The greenhouse effect is a very important factor in determining the climate on the planet Earth.

a) Explain why the moon has no greenhouse effect.

b) Explain how the greenhouse effect causes higher temperature. Give a general explanation that could apply to either a greenhouse where plants are grown or to the planet Earth.





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- a) (Answers will vary.) Average temperature will rise. Rainfall patterns will change. Etc.
- **b)** (Answers will vary.) Some places will get more rainfall, and some will get less, but the pattern cannot be predicted.

Extensions & Applications

e moon has no greenhouse effect because the moon has no atmosphere.

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

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

easily through the atmosphere and heats the surface. The surface releases heat which is partly trapped cannot go out as

easily as the light

because it

or the glass

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

(Answers will vary.)







ER KEY