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STUDENT HANDOUTS

Reading Comprehension

	O 1 1 L	
	1. What Are Aquatic Ecosystems?	
	2. Where Are Aquatic Ecosystems?	
	3. How Climate Change Can Affect Aquatic Ecosystems	
	4. Changes in Freshwater Aquatic Ecosystems Caused By Human Activity	
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✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5775 Conservation: Waterway Habitat Resources
- Enter pass code CC5775D for Activity Pages



NAME:	
GTP .	U Before You Read
	all a tata Con D
	What We Can Do
1. Put a check mark (✓) next to the answer	
O A marine debris	most nearly corrected in the United States?
O B invasive species	
O c release of greenhouse gases O b direct dumping of pollutants i	into rivers
b) Which human activity helps fish rea	A CONTRACTOR OF THE CONTRACTOR
O A building dams	
O B building fish ladders	
O c protecting coral reefs O p removing trees along streams	
c) Which is true of aquatic dead zone:	
O A Dead zones can be restored	
O B Most dead zones have disapped on a Adding fertilizer to water can	
	release of greenhouse gases.
United States TRUE FALSE c) Same species of fish are being contrue TRUE FALSE d) An ocean dead zone is an area TRUE FALSE e) Global temperature will continue TRUE FALSE	ecosystems. Itic Ocean is regulated by laws of the aught at a sustainable rate. where the fish are unsafe to eat.
Aftan Uni Dan I	NAME:
After You Read	•
Cancariation	Albat Ida Car Da
Conservation: I	What We Can Do
1. Fill in each blank with a word or group	of words from the list. Use each word only







NAME:

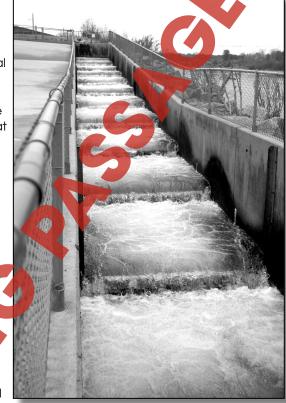
Conservation: What We Can Do

oth the United Nations and many national governments have made efforts to protect and restore aquatic environments. The United Nations has set guidelines for fishing in internationa waters. The purpose is to encourage

has set guidelines for fishing in international waters. The purpose is to encourage sustainable catches of fish and prevent habitat destruction. The guidelines include some strict laws and some suggestions that are not enforced.

Part of the UN program is observing the number, size, and species of fish caught and whether any other species are harmed in the process. Information is gathered using satellites, airplanes, and observers on fishing boats. Sometimes there are arrests of people breaking the laws, but there are also many violations that go unpunished. The Marine Stewardship Council is a non-profit organization that also tries to protect ocean aquatic ecosystems.

In 1972, representatives of 78 countries met at a conference called the London Convention. They agreed to make it illegal to dump anything harmful into the oceans or rivers that flow to the oceans.



A Fish Lade

Many coral reefs have been protected by making them Marine Protected Areas (MPAs). An MPA is something like a national park or wildlife refuge. Any activities that could damage the reef are prohibited in the area. This approach has improved the health of some reefs, but in other areas there has been a lack of cooperation and poor enforcement of the rules. In some places, reefs have been restored by creating structures with a mineral coating on them on which coral animals tend to grow.

A few ocean dead zones have been partially or completely restored by preventing fertilizers and sewage from being dumped into the rivers that flow to the ocean. The dead zone in the Black Sea between Turkey and Russia has disappeared. Countries in

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Conservation: Waterway Habitat Resources CCP5775

NAMI	E:	After You Read
		Conservation: What We Can Do
3. A	ns	wer the questions in complete sentences.
a)	Describe two ways that the United Nations gathers information on the practices of fishing boats.
b)	Describe one action that can help restore aquattic dead zones.
Ex	te	ensions & Applications
D	es	cribe one way in which government regulations can help protect or restore aquatic systems.
_	100	oribo anavay in which individuals can halp protect or restore gaugite accentees
- -	-es	cribe one way in which individuals can help protect or restore aquatic ecosystems.
_		



Activity Three

Write a Report on Coral Reefs

Coral reefs support one of the most diverse, colorful, and interesting ecosystems in the oceans. They are so rich in life, that they have been called the rainfore ts of the ocean.

Ask your teachers for books or web sites on coral reefs, or search the web and library yourself. Search for "coral reef" first. After you have taken a first look at the information you gathered, look for live exhibits of coral reefs. Unless you live in the tropics, there will be no reefs near your house. The next best thing would be an exhibit at a public aquarium that is meant to represent a reef ecosystem. Be sure to pick up any literature, they have and talk to any of the staff that knows about reef life. You might also try a large pet store with a large collection of tropical fish. Ask if they have a tank of fish that live around reefs.

In your report try to answer as many of these questions as you can. You may also go beyond the questions if you find something interesting.

- 1. Where are coral reefs located geographically and in depth below sea level?
- 2. How are reefs formed? Describe the animals called corals.
- 3. What are the producers and consumers around a coral reef?
- 4. What are the predator-prey relationships?
- 5. What natural processes and human activities endanger coral reefs?
- 6. What is being done to protect coral reefs?

It will be easy to find colorful pictures to illustrate your report.



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NAME:

Comprehension Quiz



Part A

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



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- 1. Biotic and abiotic factors cannot share the same ecosystem.
 - **TRUE FALSE**
- The first ecosystems were in the ocean.
- **TRUE FALSE**
- Oxygen is a greenhouse gas.
- Melting sea ice has made it easier for polar bears to adapt to the Arctic.
- 5. Burning some fossil fuels can cause acid rain
- **FALSE**
- Human activities brought most invasive species to freshwater ecosystems.
- 7. Coral reefs are endangered by human **FALSE**

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



- a) Which is a product of photosynthesis?
 - O a oxygen
 - O B nitrogen
 - **c** carbon dioxi
 - O **b** sodium ch
- b) Which are the most important producers in most aquatic
- ecosystems? O **A** algae
- O **B** bacteria

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- O c fish
- O **p** invertebrates

- c) What is the basic cause of most extinctions?
 - O **A** predators
 - **B** overpopulation
 - O **c** natural disasters
 - O **D** failure to adapt to change

SUBTOTAL: Conservation: Waterway Habitat Resources CCP5775-7 After You Read

NAME:

Crossword Puzzle!

Word List

ABIOTIC ACID RAIN **ADAPT DEBRIS EVOLUTION EXTINCT** FISH **FRESH**

GREENHOUSE GAS **INVERTEBRATE** LOTIC MARINE MUSSEL NATURAL SELECTION **OVERFISHING**

OXYGEN PHOTOSYNTHESIS PRODUCER RUNOFF

Across

- 1. The type of ecosystem located in the o
- **4.** Zebra __ _s have invad
- 7. What a species must do to sur an environmental
- 10. Gradual change of a species over time
- 11. The nonliving factors i
- _ ladders are installed at some dams.
- 16. What can happen to a species if it can't do 7 across.
- 17. The type of water that is less than 1% salt.

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- 18. The result of releasing nitrous oxide and sulfur dioxide.
- 19. These compounds in the atmosphere help hold

Down

- 2. Water leaving a farm field and entering a stream.
- 3. The process that allows 10 across to
- 5. The word to describe an ecosystem
- **6.** The role of plants in an ecosystem.
- 8. Ocean trash.
- 9. The process that only 6 down can do.
- 12. Spineless creatures.
- 13. Catching fish faster than they can reproduce.
- **15.** A product of 9 down that all animals

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



Conservation: Waterway Habitat Resources CCP5775-7

Changes in Fresh Water Aquatic Ecosystems

Caused by Human Activity



ndustrial Harbo

Over Fishing

Power Station



Conservation: What We Can Do

- 3. Answer the questions in complete sentences.
 - a) Describe two ways that the United Nations gathers information on the practices of fishing boats.

b) Describe **one** action that can help restore aquatic dead zones.

Extensions & Applications

Describe **one** way in which government regulations can help protect or restore aquatic ecosystems.

EASWARING

Describe \mathbf{one} way in which individuals can help protect or restore aquatic ecosystems.

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3.

- (Answers will vary.) The United Nations gathers information on fishing practices with: Any two of the following: planes, satellites, on-board observers.
- Aquatic dead zones
 can be restored by: Any
 one of the following:
 controlling agricultural
 runoff, sewage release
 into aquatic ecosystems.

Extensions & Applications

Answers will vary:

Any ne of the following:

t overfishing

ush Marine Protected

- Prevent transfer of invasive species
- Remove established invasive species
- Require fish ladders at dams in spawning stream
- Prohibit discharge of agricultural runoff and sewage into streams

10 nswers will varv

Answers will vary: Any one of the following:

- Volunteer for aquatic clean-up projects
- Dispose of plastic trash responsibly
- Do not leave old fishing tackle and trash near waterways.
- Learn more about aquatic





Crossword Puzzle!

