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STUDENT HANDOUTS

- Reading Comprehension
 - 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

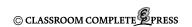
- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5775 Conservation: Waterway Habitat Resources
- Enter pass code CC5775D for Activity Pages





Changes In Saltwater Aquatic	Changes In Saltwater Aquatic
Ecosystems Caused By Human Activity	Ecosystems Caused By Human Activity
 Put a check mark (✓) next to the answer that is most correct. 	n the last section we learned about
a) Where is most of Earth's water located? O A in rivers O B in oceans O C in glaciers O D underground	problems in freshwater ecosystems caused by human activities. Ocean ecosystems have some of the same problems, but they are free of others. Competition between native and foreign species is not much of a problem in the ocean. Since the oceans are all
b) What is a "dead zone"? A a place where fish go to die B a place known for shipwrecks C a place that cannot support aquatic life D a place in the ocean where there is no wind c) What is "debris"?	connected, species are free to live in the habitat in which they survive best. The volume of water in the oceans is much greater than the volume of fresh water—about 35 times greater. Because of the great volume of ocean water, some pollutants reach a toxic level more slowly than they do in lakes and rivers.
O A discarded trash O B an aquatic plant O C an extinct species of fish O D shallow marine ecasystems	Agricultural fertilizer runoff is a pollution problem similar to the problem caused in fresh water. This pollution can lead to algae growth that eventually causes dead zones along coastlines. Overfishing is another problem common to both fresh and saltwater ecosystems. Pollution in the form of floating debris is a much greater problem in the ocean than in freshwater ecosystems. Some of the material is discarded or lost by boats, some is washed
2. Circle the word TRUE if the statement is TRUE or Circle the word FALSE if it is FALSE.a) All the oceans are connected.	down streams, and some is blown from landfills. Lost fishnets and similar debris can trap and kill seabirds, turtles, dolphins, sharks, and many other marine animals. Small plastic pellets, called nurdles , are often eaten by marine wildlife because they look like fish eggs. Animals often die of starvation or poisoning after eating nurdles. Coral reefs are unique ocean ecosystems that are endangered by human activity. Reefs
true false b) A coral is a species of fish. True false c) Invasive species from freshwater lakes are taking over marine ecosystems.	are located in shallow tropical ocean waters and are formed by animals with hard calcium carbonate exoskeletons . As the discarded exoskeletons accumulate over thousands of years, they form large structures that support a varied and colorful ecosystem. Algae caused by agricultural runoff can damage reefs. Increased ocean acidity caused by greenhouse gas emissions may cause the calcium carbonate in reefs to dissolve. Some fishing practices, such as dynamiting, also damage many reefs.
true FALSE d) Most salt water is located in inland salt lakes. TRUE FALSE e) Floating plastic endangers sea life. TRUE FALSE	Explain why invasive species are less of a problem in oceans than in freshwater ecosystems.
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NAME: After You Read 🐟	After You Read NAME:
Changes In Saltwater Aquatic	Changes In Saltwater Aquatic
	Ecosystems Caused By Human Activity
Ecosystems Caused By Human Activity 1. Fill in each blank with a word or group of words from the list. Use each word or group of words once.	 3. Answer the questions in complete sentences. a) Describe two human activities that endanger coral reefs.
exoskeleton fertilizer debris dead zone nurdles coral reef	
a) runoff from fields can create an ocean	1)
b) The accumulation of thes of dead sea animals forms	
c) The small bits of plastic calledendanger sea life because they	2)
resemble fish eggs. d) Floating plastic objects are one of the most hazardous forms of marine	
2. Put a check mark (/) next to the answer that is most correct	Extensions & Applications Explain how agricultural practices can cause an area of an ocean to lose its ability to support life.

U Before You Read



 \bigcirc D

ater?

NAME: _



b) How does the volume of water in the ocean compare to the volume of all fresh

a) What is the main structural material of coral reefs?

About 35 times as much ocean water

O **c** About 35 times as much fresh water

O **B** About 35% more ocean water

O **D** About 35% more fresh water

calcium carbonat



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W Reading Passage

NAME: _



Activity One

Visit an Aquatic Ecosystem

Visit an aquatic ecosystem near your home. The ecosystem can be any size from a puddle to an ocean. A small, still body of water, like a pond or a swamp, will be easiest to observe and understand.

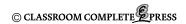
Take notes on the ecosystem with the goal of answering the following questions:

- 1. Is the ecosystem lentic or lotic?
- 2. Which are the producers?
- 3. Which are the consumers?
- 4. Which consumers are predators?
- 5. Can you tell what the consumers eat?
- 6. Can you see any predators hunting prey?
- 7. Are any of the organisms part of both the aquatic ecosystem and the surrounding land ecosystem?
- 8. Are there any signs of pollution or debris?

The object is to learn as much as you can by careful observations. You may want to learn more by making observations at different times of day and during different seasons.

You may also want to take some pictures and include them in a notebook or in a written report.







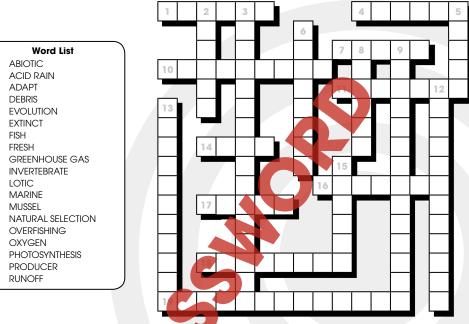
Conservation: Waterway Habitat Resources CCP5775-5

NAME:





Crossword Puzzle!



Across

- 1. The type of ecosystem located in the or
- 4. Zebra ___ __s have invade
- 7. What a species must do to survi an environmental change
- 10. Gradual change of a species over time
- 11. The nonliving factors in a
- _ 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.
- 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 in flowing water.
- **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

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Part A

After You Read 🔷

Comprehension Quiz

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

- 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. **FALSE**
- Melting sea ice has made it easier for polar bears to adapt to the Arctic.
- 5. Burning some fossil fuels can cause acid rain
- **TRUE FALSE**
- **6.** Human activities brought most invasive species to freshwater ecosystems. **TRUE** FALSE
- 7. Coral reefs are endangered by human active **FALSE**

TRUE

Put a check mark (\checkmark) next to the answer that is most correct. c) What is the basic cause of most

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

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extinctions?

O **A** predators

O **B** overpopulation

O **c** natural disasters

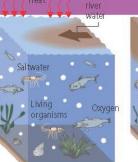
O **p** failure to adapt to change

SUBTOTAL: Conservation: Waterway Habitat Resources CCP5775-5

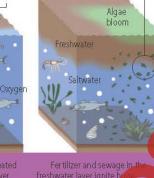


How a Dead Zone Forms



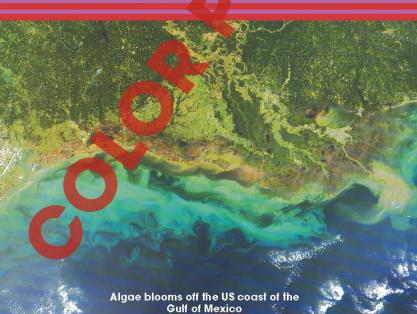


















NAME:

Changes In Saltwater Aquatic **Ecosystems Caused By Human Activity**

- 3. Answer the questions in complete sentences.
 - a) Describe two human activities that endanger coral reefs.

1)			

2)			
-			

Extensions & Applications

Explain how agricultural practices can cause an area of an ocean to lose its ability to support life.





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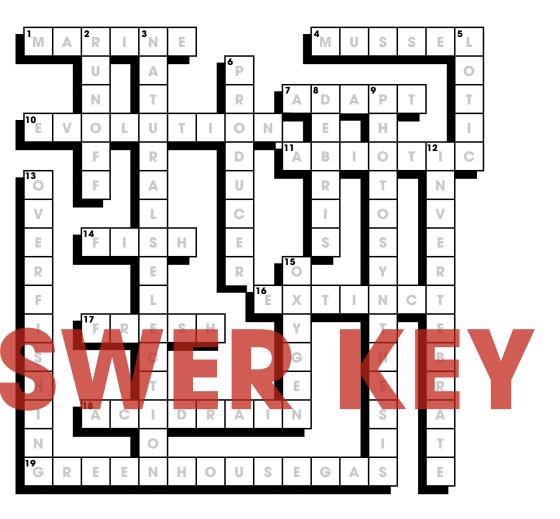
(Answers will vary.) Coral reefs are endangered by... Any two of the following: burning fossil fuels (which raises acidity), dynamiting, agricultural runoff, fishing methods.

Extensions & Applications

Ans vers will vary:

runoff in non water enters the water and encourages algae growth. When the algae dies, the microscopic organisms that decompose the alga take ox from animals. At there is no longer enough oxygen to support aquatic animals.

Crossword Puzzle!



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