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STUDENT HANDOUTS

Reading Comprehension

1. V	What Is Salt Water?	
2. V	Where Is Earth's Salt Water?	
3. (Climate Change and Salt Water	
4. I	How the Amount of Salt Water Could Change	
5. H	How the Purity of Salt Water Could Change	
6. I	How Changes in Salt Water Could Change Our Lives	
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✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5774 Conservation: Ocean Water Resources
- Enter pass code CC5774D for Activity Pages





O c climate change	and atmosphere.
O D falling sea level	Climate change is related to an increased greenhouse
b) Cod is a fish that was once part of many people's diet in North America. Why do few people eat cod today?	effect which is caused by an increase in the atmospheric concentration of greenhouse gases.
	An important greenhouse gas that people have
O A Cod were overfished. O B Cod contains high levels of mercury.	some control over is carbon dioxide. This is increasing
O c Chicken became more popular than fish.	because of the great increase in the use of fossil fuels
O D Polar Bears have reduced cod populations.	in the 20th and 21st Centuries.
c) Most marine debris is some form of:	In 1997, representatives of almost 200 countries met in
	Kyoto, Japan to create a plan to reduce greenhouse
O A paper O B plastic	gas emissions. One goal of the plan was to reduce
O c rubber	greenhouse gas emissions to a level that is 5% lower than it was in 1990. It is not clear how successful this
O D wood	plan was in reducing global climate change, but it
	is certain there will be more such plans in the future.
2. Circle) the word TRUE in the statement is TRUE or Circle) the word FALSE	Whatever the success of such plans turns out to be, the
if it is FALSE.	effect will be very gradual. Even if everyone stopped using fossil fuels tomorrow, climate would continue to
a) Nitrogen is a greenhouse gas.	change, and polar ice would continue to melt into the
TRUE FALSE	oceans for years to come.
b) Oil poured down a storm drain is likely to end up in the ocean.	Individuals can help by using less energy and by using alternative sources of energy.
• TRUE FALSE	Traveling by almost any other means than by car reduces greenhouse emissions.
c) Some species of fish are being caught at a sustainable rate.	Choosing appliances, light bulbs, and vehicles that are energy efficient also helps.
TRUE FALSE	Identify five much lame threatening coord water vectors
d) An ocean dead zone is an area where all the fish have been caught.	Identify <i>two</i> problems threatening ocean water resources.
TRUE FALSE ON Human population has loveled off	- (510 ^P)
e) Human population has leveled off.TRUE FALSE	
•••••••••••	
CLASSROOM COMPLETE PRESS 7 Conservation: Ocean Water Pesources CCP5774-7	© CLASSROOM COMPLETE PRESS 8 Conservation: Ocean Water Resources CCP5774-7
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NAME:

Conservation: What We Can Do

Reading Passage

hree problems threaten saltwater resources: climate change, pollution, and overfishing. There

are two ways to approach these problems:

Governments can make laws that regulate how people

treat the ocean and atmosphere, and individuals can

make personal choices that help protect the ocean

and atmosphere.

NAME:

cause of:

O **A** acid rain

O **B** skin cancer

U Before You Read

Conservation: What We Can Do

a) Increasing concentration of greenhouse gases in the atmosphere are a major

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



Activity Three

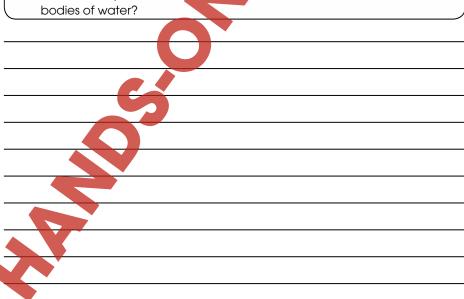
Making Salt Water

In this project you will make salt solutions that have the same percent salt as the ocean and two salt lakes. This is what you will need:

- A measuring cup
- A scale or balance
- Some objects that just barely sink in fresh water, like

This is what you do:

- Find the percent salt content in the ocean, the Great Salt Lake, and the
- Prepare salt solutions that are the same concentration as each of these bodies of water. (remember: 1 milliliter of water has a mass of 1 gram.)
- See which objects will float in which solutions.
- Answer the question: What would it feel like to swim in each of these







Conservation: Ocean Water Resources CCP5774-7





NAME:

Comprehension Quiz



Part A

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

1. All Earth's salt water is in the oceans.

TRUE FALSE

Ocean water is 71% salt. **FALSE**

TRUE

- 3. Water enters the ocean through runoff and leaves by evaporation.
- An increased greenhouse effect will lead to higher ocean levels.

5. Most of Earth's ice is in icebergs.

TRUE

6. Fertilizer runoff can cause ocean dead **FALSE**

FALSE

FALSE

TRUE

7. Materials poured down storm drains ac vage treatment plants.

TRUE

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

- a) Which of these is a greenhouse gas?
 - O a oxygen
 - 0 **B** nitrogen
 - O c carbon did
 - O **p** sodium chloride
- b) What percent of Earth's water is salt water?
 - O **A** 3.5%
 - O B 29%
 - O **c** 71%
 - O **D** 97.7%

on tropical atolls face if global temperature continues to rise? O A drought

c) What problem might people living

- O B flooding
- O c pollution
- **D** tsunami

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NAME:

Crossword Puzzle!

Across

- 2. The chemical formula of sea salt.
- **6.** A part of the ocean where fish cannot live.
- 11. This keeps Earth's heat from escaping into space.
- 13. This inland salt sea in Asia has lost 75% of its surface area.
- 14. Solid water
- 15. When water evaporates, it becomes water
- 17. A giant ice cube floating in the ocean.
- 19. Saving resources by using them more carefully.
- **20.** Oil, coal, and natural gas

Down

- 1. All the gases above Earth's surface make up the
- 3. Rising global temperature is
- an example of this. 4. Any one of the gases that
- trap Earth's heat. 5. A large body of water.
- 7. The process before
- precipitation. 3.5% is the _ salt in sea water.
- 9. This process cannot to place below an ocean depth of 2000 feet.
- **10.** Removing the salt from salt 12. Evaporation, condensation,
- precipitation, runoff. **16.** Sea_
- 18. A low-lying tropical island.

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ARAL ATMOSPHERE ATOLL CLIMATE CHANGE

FOSSII CONCENTRATION CONDENSATION CONSERVATION ICE BERG

DEAD ZONE DESALINATION GREENHOUSE EFFECT GREENHOUSE GAS

LEVEL NaCl PHOTOSYNTHESIS SFA VAPOR WATER CYCLE

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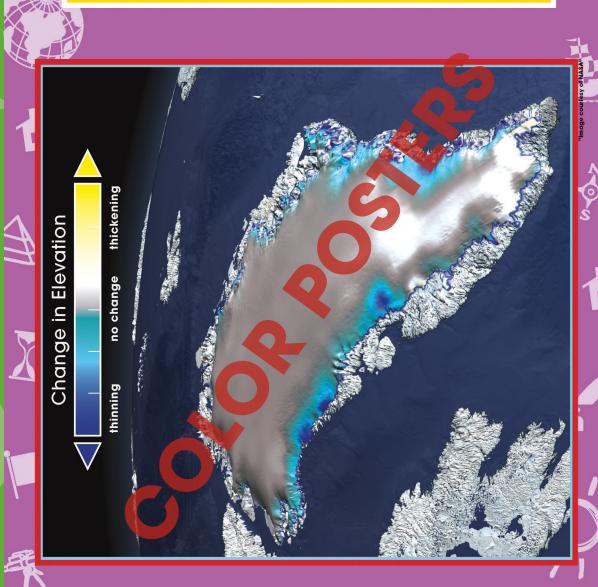
(Note: For answers of more than one word, do not put a space between the words.)

18



(The melting ice sheet) • • • • • • • • • • • • • • • •

Greenland



27

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Conservation: What We Can Do

3. Answer the questions in complete sentences.

a)	What is the fastest way to increase the population of a fish species that has been
	greatly overfished?

b) What is the "Great Pacific Garbage Patch"?		

Extensions & Applications

Use the graphic organizer to show how partial or complete solutions can be found to the problems caused by the three ocean changes listed. Describe one solution in each empty box.

Change in the Ocean	Describe Something Governments Could Do That Would Help.	Describe Something an Individual Could Do That Would Help.	
Rising Sea Level			
EA	SY MA	RKING	
Marine Pollution			
Declining Fish Populations			

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- **a)** The fastest way to increase a fish population is to catch the fish at a lower rate than they reproduce (or to underfish the
- **b)** The Great Pacific Garbage Patch is a place in the north Pacific Ocean where current patterns cause floating trash to collect.

Extensions & Applications

Answers will vary:			
Change in the Ocean	Describe Something Governments Could Do That Would Help.	Describe Something an Individual Could Do That Would Help.	
Rising Sea Level	Regulate greenhouse gas emissions Support development of alternate	Use cars less for transportation Use energy efficient appliances	
Marine Pollution	energy sources Regulate disposal of trash by ships Regulate agricultural runoff	Do not dispose of oil or toxins in storm drains Carefully dispose of non-biodegradable carefully	
Declining Fish Populations	Limit catch of declining fish populations Require underfishing of severely endangered fish species	Buy only sustainably harvested fish Buy farm-raised fish	

: Activity Two

- Challenger Deep in the Mariana Trench
- 11,000 meters 1,095 as great as at the
- surface Yes—flat fish, sea worms
- : o Two
- o Ooze, flatfish, sea worms, shrimp
- o Spherical steel cabin, selfpropelled, gasoline-filled float, iron shot ballast
- o There are currently no vessels capable of carrying people to the Challenger Deep.



Activity Three

- Ocean, 3.5%; Great Salt Lake, about 14%(varies greatly); Dead Sea, 30%
- It would be easier to float in all these bodies of water than in fresh water. It would be difficult to sink in the Great Salt Lake or the Dead Sea.



- Yes. One of the largest caused Nike shoes to wash up on beaches all over the world.
- The paths of the toys gave scientists a more accurate idea of the paths followed by ocean currents.



