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STUDENT HANDOUTS

Reading Comprehension

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- Enter item CC5774 Conservation: Ocean Water Resources
- Enter pass code CC5774D for Activity Pages









How the Amount of Salt Water Could Change

- 1. (Circle) the word TRUE if the statement is TRUE or (Circle) the word FALSE if it is FALSE.
 - a) The Great Lakes are salt lakes because they flow to the

TRUE

b) All the ice at the North Pole melts every summ

TRUE

c) The South Pole is located on the continent of Antarctica.

TRUE

d) Sea level is rising about 1.5 meters (4.9 feet) each year.

TRUE **FALSE**

e) Rising global temperature is increasing the size of most salt lakes.

f) Rising sea levels will be more of a problem for some countries than others.

2. Use the words or groups of words in the list to answer each question. Use each word only once. Some words will not be used.

North Pole	South Pole	Greenland	polar ice cap
glacier	fresh	salt	Antarctica
a) Most fresh water	is frozen in Earth's t	WO	\$.
b)	is a large i	sland near the North Pole) .
c)	is a contin	ent covered in ice.	
d) Most of Earth's _		water is in the ocea	n.
e) A permanent m	ass of ice slowly mo	ving down a mountainsic	de is called a
	·		

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NAME:

How the Amount of Salt Water Could Change

- 1. Put a check mark (\checkmark) next to the answer that is most confi
 - a) Which of these bodies of water is shrinking?
 - O **A** the Aral Sea
 - O **B** Lake Superior
 - O c The Arctic Ocean
 - the Mediterranean Sea
 - b) Where is the South Pole located?
 - O **A** Iceland
 - O **B** Antarctica
 - O **c** Greenland
 - O **D** The Arctic Ocean

)) 2. [Oraw a line from each w	ord or words on the left to its meaning on the right	
1	ice sheet	a large island near the North Pole	A
	Aral Sea	a thick layer of ice covering a large area of land	B
3	Greenland	a permanent ice field slowly moving down a mountainside	C
4	glacier	the location of most of Earth's ice	D
5	Antarctica	a salt lake in Asia	E
)			





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Reading Passage

NAME:

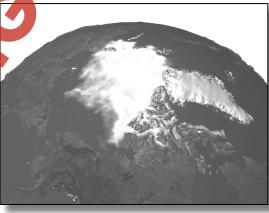
How the Amount of Salt Water Could Change

s you learned earlier, salt water is located in the ocean and in inland lakes that have no outlet to the ocean. You also saw that there is much more salt water in the ocean than in the lakes. First we will look at the coming change in the amount of ocean water.

About two-thirds of Earth's fresh water is frozen in the **polar ice** caps. About 90% of this ice is around the South Pole, and 10% is near the North Pole. A much smaller amount of water is frozen in **glaciers** on high mountains in many parts of the world. The pictures show that the ice cap the North Pole is getting smaller

As Earth becomes warmer, these ice caps slowly melt and most of the water eventually finds its way to the ocean. Once in the ocean, the fresh water soon mixes with the salt water, and the amount of ocean salt water increases. You might think the ocean will become less salty,





but the difference is very small. Remember, most of the ocean is over two miles deep, and melting ice only adds about 1.5 mm to the depth each year.

An ice sheet is a thick layer of ice covering a large area of land. One of Earth's two ice sheets covers the continent of **Antarctica** at the South Pole, and the

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- After You Read How the Amount of

	Salt	Water	Could	Change
A				

3. Answer the questions in complete sentences.

a)	Compare the amount of ice at the South Pole to the Pole.	am	ount arice at the North

b) Explain why increase in human population wi

T	Extensions & Applications
a)	Describe how increasing global temperature will affect ocean level and explain why the level will be affected this way.
b)	Describe how increasing global temperature will affect the levels of salt lakes and explain why the levels will be affected this way.

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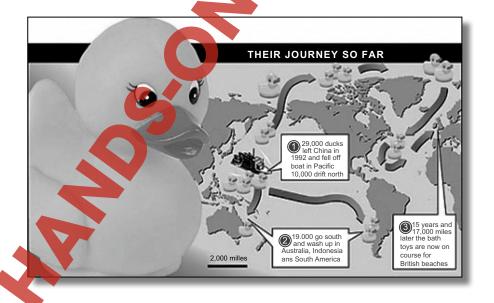


Activity Four

Write a report on rubber duckies:

In 1992, a container ship lost several containers in a storm in the north Pacific Ocean. One of the containers broke open and released 28,000 bath toys, including rubber ducks, into the ocean. Write a report on this spill. You will find information by searching the internet for: "Floatees", "Friendly Floatees", and "Curtis Ebbesmeyer". Try to answer these questions in your report:

- Where did the bath toys go?
- Why did they last so long?
- How did they get out of their packaging?
- Have there been similar spills of cargo
- How did scientists use the spill to learn more about the ocean?



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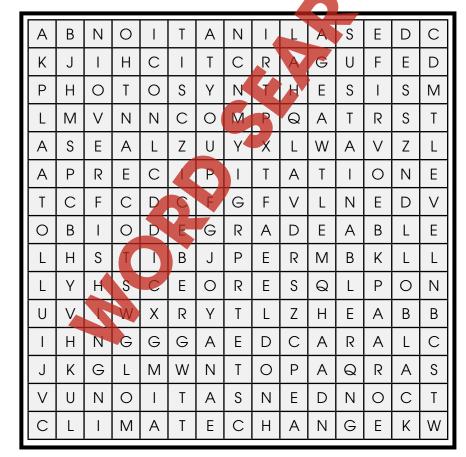




Word Search

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

Antarcti	ca Black (Sec) fresh (wate	r) overfishing	(sea) level
Arctic	climate char	nge ice berg	photosynthesi	sodium (chloride)
atoll	condensati	on melt	precipitation	sustainable
Aral (Se	a) (dead) zor	ie NaCl	salt (water)	(water) cycle
(Aral) S	ea desalinatio	n ocean	(salt) water	(water) vapor



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Part C

Comprehension Quiz

Answer each question in complete sentences.

1. Compare exploration of the ocean floor to exploration of land surfaces.



Explain why water in all the oceans has about the same salt content.



3. Explain in terms of food chain relationships which species tend to have the highest concentrations of toxins, like mercury, in their systems.



4. Describe **two** things individuals can do to help reduce emissions of greenhouse gases into the atmosphere.



5. Define the word "sustainable" as it applies to the fishing industry and fish populations.



/15

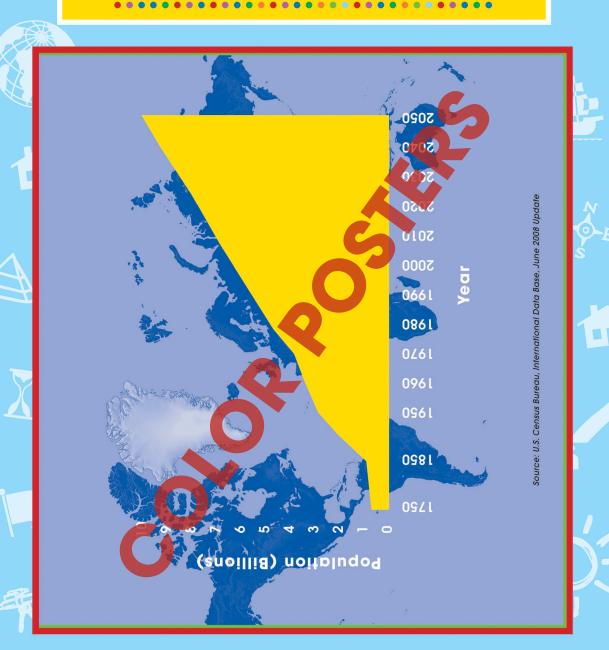
SUBTOTAL:

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World Population Forecast



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How the Amount of Salt Water Could Change

- 3. Answer the questions in complete sentences.
 - a) Compare the amount of ice at the South Pole to the amount of ice at the North
 - **b)** Explain why increase in human population will cause some salt lakes to shrink.

Extensions & Applications

a) Describe how increasing global temperature will affect ocean level and explain why the level will be affected this way.

b) Describe how increasing global temperature will affect the levels of salt lakes and explain why the levels will be affected this way.

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- There is about 10 times as much ice at the South Pole as there is at the North:
- **b)** More people will need more water, which they will draw: from some of the streams that flow into salt lakes.

will vary: a) In creasing global temperature will cause sea level to rise because polar ice will melt and run

sions & Applications

into the ocean

b) Increasing global temperature will lower the level of salt lakes because it will increase the rate of evaporation.





: 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 Ooze, flatfish, sea worms, shrimp
 - 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
- The paths of the toys gave scientists a more accurate idea of the paths followed by





ER KEY