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STUDENT HANDOUTS

• Reading Comprehension – Five Themes of Geography

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Reading Passage

NAME:

Human & Environmental Interactions

any things we do each day affect our environment. Learning these things means learning about human and environmental interactions. Some of these interactions are good, but others are not. We recycle paper to save trees, but we pollute the air that the trees clean for us. We work to protect endangered animals, but some people continue to hunt and kill them. When an environment is harsh or changing, we must adapt to that environment to survive.



One interaction that is affecting Antarctica is climate change. Scientists call this change **global warming**. It is also called the **greenhouse effect**. Some scientists say that it is caused by the Earth's natural cycles. Many other scientists say we are causing this change by polluting the air. The cars we drive pollute our air. The factories that produce the products we need also create this pollution. Many scientists believe this air pollution is causing the temperature of our planet to rise slowly. This change has already affected Antarctica. Much of the **pack** ice that surrounds it, and some of the ice sheets that cover it, are slowly disappearing. They are melting, and the water is flowing into the oceans.



Another effect of pollution is found in the **atmosphere** high above Antarctica. Pollution is harming the **ozone layer** that surrounds the Earth! The ozone layer helps protect humans, animals, and plants from the sun's harmful rays. Unfortunately, scientists have discovered a large hole in the ozone layer over Antarctica. There is now a greater chance of getting a sunburn or skin cancer. Doctors tell people to use sunscreen and to stay out of the sun to avoid its harmful rays. Many countries are taking steps to reduce the pollution that causes ozone layer damage. They are forbidding the use of damaging chemicals, such as those in **aerosol sprays** and air conditioners that use **Freon** gas.

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After You Read 🌪

NAME: _

Human & Environmental Interactions

	Answer each question with a complete sentence.
3.	How do aerosol sprays harm the environment?
4.	What is causing global warming and the greenhouse effect?
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Research

5. Pretend you are a scientist studying the atmosphere above Antarctica. What things would you see? Why would it trouble you? Research the hole in the ozone layer over Antarctica. What does it mean for us?

Think of these questions when completing your research.

What do scientists use to see the hole in the ozone layer?
Is it growing or shrinking?
What is causing the hole in the ozone layer?
What are CFCs and Freon, and how have they hurt the ozone layer?
Can we stop the hole from growing larger?

Share your findings with your class. Make a Bristol board display to show the things you have researched.

6. Pretend you are a scientist studying the greenhouse effect. What things would you learn? Would they trouble you? Research the greenhouse effect, and explain how it is threatening Antarctica. What does it mean for us?

Think of these questions when completing your research.

What is the greenhouse effect?
How does it affect Antarctica?
What is causing the greenhouse effect?
Can we reverse the greenhouse effect?

Share your findings with your class. Make a pamphlet to share the things you have

learned.
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Across

- Antarctica is in the _
- Used to travel short dista Antarctica
- Imaginary line running middle of the Eart
- ___ are one of Antaratica's unique physical characteristics
- 12 There are seven of these large land masses on Earth
- 14 Antarctica is a cold, frozen
- 15 The continent closest to Antarctica is
- 16 Much of Antarctica is few people live there
- 17 A word that describes how people, ideas and products move from place to place

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- 1 The few people who visit Antarctica are
- 2 To find Antarctica on a map, look for the
- to move from place to It is very
- place in Antarctica Pollution is harming the _ layer in the
- atmosphere above Antarctica 6 Much of the pack ice is melting because
- A kind of wildlife that lives along the shores of the sea in Antarctica
- 10 A ship that breaks a path in the ice for
- other ships 11 Absolute location is the place where the
- lines of latitude and
- 13 A word that describes the normal weather of a place



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NAME:







Comprehension Quiz

Part A

FALSE

TRUE



Circle the word TRUE if the statement is true. Circle the word FALSE if it's false. a) Antarctica is in the northern hemisphere.

b) The South Pole is in Antarctica. TRUE **FALSE**

TRUE **FALSE** c) The Southern Ocean was once called the Antarctic Ocean.

d) North America is the continent closest to Antarctica.

e) There are no roads, railways, or la

(13)

FALSE f) Mt. Erebus is an extinct volcand TRUE

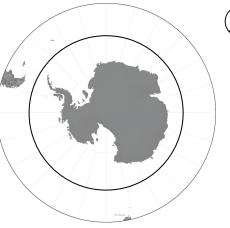
TRUE **FALSE** g) Tall trees grow in Antarctic

ople live in Antarctica. h) More than one million pe TRUE FALSE

Part B

Label the map by doing the following:

- Show the following features on the map by writing the letter on the map in the correct location.
 - a) South Pole
 - **b)** 60°S latitude
 - c) South America
 - d) Atlantic Ocean e) Pacific Ocean
- 2. Color the Prime Meridian red.



SUBTOTAL:

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After You Read

NAME:

Word Search

Find all of the words in the Word Search. Words may be horizontal, vertical, or diagonal. A few may even be backwards! Look carefully!

Antarctica supplies ozone layer krill house effect level scientist peninsula continent lava satellite aerosol wildlife latitude pack ice hinhabited species place longitude ice shelf plankton active volcano environment barren climate global warming lich shoreline

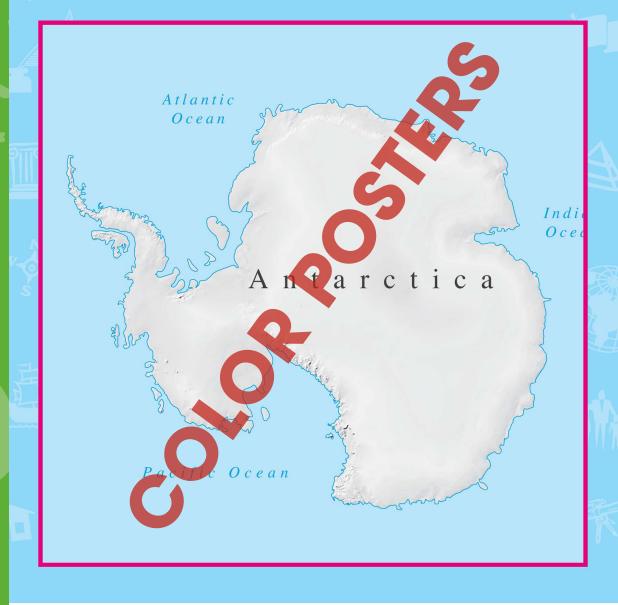
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b	а	r	r	е	n	f	У) y	h	i	ı	n	m	V	d	С	X
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р	-	j	g	†	d	е	d	е	С	i	k	С	а	р	С	i	d
g		0	b	а		W	а	r	m	i	n	g	Χ	f	i	f	r
а	f	†	С	e	f	f	Ф	е	S	u	0	h	n	е	е	r	g
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Antarctica Physical Map





After You Read

NAME	Ν	lΑ	M	E
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Human & Environmental Interactions

- **3.** How do aerosol sprays harm the environment?
- **4.** What is causing global warming and the greenhouse effect?

Research

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can we stop the hole from growing larger

your findings with your class

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Think of these questions when completing your research.

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Share your findings with your class. Make a pamphlet to share the things you have learned.





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Possible answers: Cause a hole to form in the ozone layer, etc.

Possible answers: Earth's natural cycles, human activities/ pollution

Answers will vary in detail depending on source used

Across:

- 1. southern
- 4. snowmobiles
- 8. Equator
- 9. icebergs
- 12. continent
- 14. desert
- 15. South America
- 16. uninhabited
- 17. movement

Down:

- 1. scientists
- 2. South Pole
- 3. difficult
- 5. ozone

TER KEY

- 11. longitude
- 13. climate



Answers will vary in

detail depending on

resource used



