



TEACHER GUIDE

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STUDENT HANDOUTS READING COMPREHENSION

• Earth's Climate	
Climate and Human Civilizations	
Melting Ice Sheets	
Sea Level Changes	
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Climate and Human Health	
Climate and the Economy	
Climate and Ecosystems	••••
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- Enter item CC5770
- Enter pass code CC5770D for Activity Pages





В

Sea Level Changes

1. Have you ever been to the ocean? Do you live in a city near the sea? Imagine if the water level in the ocean rose by a few feet. What would happen to cities and towns near the sea?

2. Match each word to its definition. You may use a dictionary to help you.

1	expand	To estimate a future condition based on past conditions and the knowledge of how things change.
2	climate	To grow larger and take up more space.
3	predict	When water fills an area that is usually dry.
4	sea level	A period of one hundred years.

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2)	climate	To grow larger and take up more space.
	predict	When water fills an area that is usually dry.
1	sea level	A period of one hundred years.
5	century	The average weather conditions in an area over many years.
6	flood	The place where land meets ocean water.

Climate Change: Effects CCP5770-4

Reading Passage

Sea Level Changes

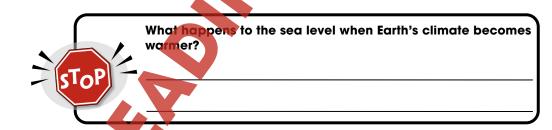
NAME: _

hanges in Earth's climate causes changes in sea level. When the climate becomes warmer, sea level rises. The rise in sea level has two causes.

When water heats up, it **expands**. In other words, warmer water takes up more space than cooler water. The difference is small. You wouldn't notice the water in a glass taking up more space as it warms. However, the amount of water in the oceans is so great. Even a small change in temperature can expand the surface water enough to cause a significant rise in sea levels.



Sea levels also rise due to the addition of water and ice into the oceans. As polar ice caps melt, huge blocks of ice move from the land into the sea at the poles. Water from the melting ice also adds to ocean w



Scientists predict that sea levels may rise as much as 26 inches by the end of this century. That may not sound like much. But it will have horrible effects for people living close to sea level. Many large cities are built at the ocean's edge. Rising seas could flood areas where millions of people live. Some island nations are at risk of completely disappearing under the sea. Sea level rise could be even greater if ice sheets melt at a faster rate.

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NAME:



Sea Level Changes

1. Fill in each blank with the correct word from the reading. You may use the same term more than once.

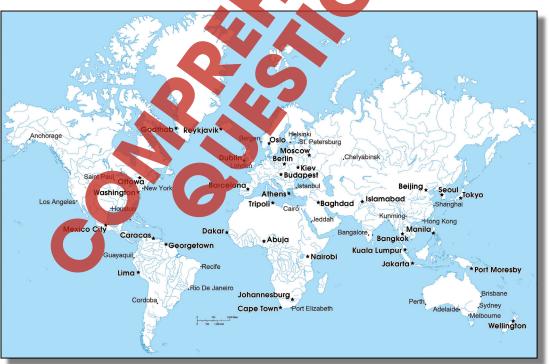
a) When water heats up, it _____

Water from melting __ _ adds to the volume of the oceans. It can cause a rise in sea level.

Scientists predict that sea levels may rise a much of this century.

d) Sea level rise could be even greater if ice sha

2. On the map below, circle the cities that will most likely be affected by a rise in



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After You Read NAME: Sea Level Changes

3. Answer each question with a complete sentence.

			,	· · · · · · · · · · · · · · · · · · ·	
a)	Describe two ways in whi	ch global climate change	can	cause c	rise in sea level.

b) Explain why a rise in sea level of several inches could have horrific effects for millions of people around the world.

Research

4. How is rising sea level affecting your country?

Find a map on the Internet. Find your country. What cities in your country are close to

Research more about how c areas in your country are affected by rising sea own or region in your country to research. Find out:

- If rising sea level has already affected your area.
- What effects your area will most likely experience if sea level continues to rise.
- What people in your area are doing to help guard against the effects of rising sea

Write a report to share with the rest of your class.





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Create an ecosystem globe.

You will need:

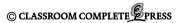
- A globe showing the continents and oceans.
- Scrap newsprint paper.
- Art paste.
- Paint brushes.
- Round balloons.
- Plastic table cover.

Create a paper mache globe. Cover your work space with a plastic table cover. Tear the newsprint paper into strips about 1 inch by 4 inches. Water down your paste slightly so that it can be easily painted onto the paper. Blow up your balloon. Paste both sides of a paper strip and lay it flat onto the balloon. Keep repeating until the balloon has an even layer of paper covering it. Let this layer dry completely. Repeat the entire procedure to add 2 more layers, or until a thick shell has formed around your balloon.

Wait until your paper mache globe is completely formed and dry. Use a pencil to outline a sketch of the continents and oceans. Use a geographic globe as a model.

es and locations of the major ecosystems found around the globe. Use the library or Internet resources to help you. Include both land and ocean ecosystems.

Decide what color will represent each type of ecosystem on your globe. Begin ontinents in black paint. Then, choose another dark color to outline the ecosystem locations. Wait until the outline paint is dry. Fill in the areas with the colors you chose for each ecosystem. Now wait for this paint is dry. You k and label the larger ecosystems with a permanent marker. Create nowing which color represents which ecosystem. Display your globe in your





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After You Read

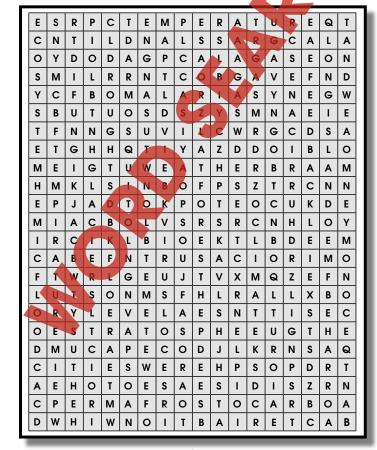
Word Search

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

bacteria economy cape cod ecosystem cities feedback climate flood deposit forest desert fungi disease gas drought glaciers

grassland hurricanes ice long island malaria melt mosquito permafr

sea level storms emperature tundra weather



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NAME:

Comprehension Quiz

Part C

Answer the questions in complete sentences.

1. Describe the difference between weather and climate.

2. Describe two tools scientists use to study melting ice sheet



can have a big effect on people. 3. Explain why small changes in sea level



4. Explain how climate change could cause the spread of diseases.



5. Describe how the economies of countries could be affected by climate change.



SUBTOTAL: /14

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Extreme Weather



Gulf of Mexico

NAME:	





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- 2 climate
- 3 predict
- 4 sea level
- 5 century
- 6 flood
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- To estimate a future condition based on past conditions and the knowledge of how things change.
- To grow larger and take up more space.
- When water fills an area that is usually dry.
- A period of one hundred years.
- The average weather conditions in an area over many years.
- The place where land meets ocean water.



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Answers will vary.



- 1
- (2) (E

B

D

E

ANSWER KEY

- 4
- 5 D











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Sea retaining wall — Sydney, AU

Sea levels also rise due to the addition of water and ice into the oceans. As polar ice caps melt, huge blocks of ice move from the land into the sea at the poles. Water from the melting ice also adds to ocean water.



What happens to the sea level when Earth's climate becomes warmer?

Scientists predict that sea levels may rise as much as 26 inches by the end of this century. That may not sound like much. But it will have horrible effects for people living close to sea level. Many large cities are built at the ocean's edge. Rising seas could flood areas where millions of people live. Some island nations are at risk of completely disappearing under the sea. Sea level rise could be even greater if ice sheets melt at a faster rate.





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Extreme Weather

