



TEACHER GUIDE

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STUDENT HANDOUTS READING COMPREHENSION

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✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5770
- Enter pass code CC5770D for Activity Pages





arth's climate has gone through many changes in its history. Humans have been around for only a tiny part of Earth's history. Climate has changed over the past 1 million years. These changes have greatly affected the development of humans and human societies.

Humans and their early relatives have been **evolving** during a relatively short time. During this time, Earth's climate has gone through many **cyclical** changes. Ice sheets have grown and



shrunk as a result of changes in Earth's temperature. At one point, the Laurentide Ice Sheet covered much of North America only 11,700 years ago.



How long ago did ice sheets cover much of North America?

Climate changes affected how early humans moved, or **migrated**, around the world. Early humans had to hunt wild animals and forage wild plants for food. Sometimes, changes in climate would cause **droughts** or movement of ice sheets. When this happened, humans often had to move to follow their food supply. Climate changes also opened new lands for humans. Most of the water that freezes to form ice sheets comes from the ocean. As ice sheets grow, the level of water in the oceans, or **sea level**, drops. As sea level drops, new lands are exposed for people to live on or move across. When the climate warms, the ice sheets melt. Sea level rises and floods areas that were once dry. Early humans moved to find **habitable** places to live.

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Climate Change: Effects CCP5770-2

ME:	7:	After You	Read 🔷
Climate	and Hu	man Civ	ilization
. Use the words in the		~~~~	
migrate	drought	cyclical	sea level
	a) What is anoth	er word for the lev	el of water in the oce
	b) What did earl habitable pla		do in order to find
	c) What happer	s after many seaso	ons of dry weather?
	d) What types of	changes happen	over and over again?

- 2. Put a checkmark (\checkmark) next to the answer that is most correct.
 - a) How long ago did ice sheets cover much of North America?
 - O A 1,170 years ag
 - O **B** 7,100 years ago
 - O **c** 11,700 years
 - O **p** 110,700 years ago
 - b) Climate changes have affected early humans during the past how many years?
 - O A 4 billion years
 - O B 1 million years
 - **C** 3thousand years
 - **D** 2 hundred years

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- c) How did early humans get fruit to eat?
 - O **A** Growing it on farms.
 - O **B** Foraging for it in nature.
 - Or Trading it for other goods.
 - O **D** Shopping for it in a market.



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Climate and Human Civilization

3. Answer each question with a complete sentence.

a) Changes in global climate has affected how early humans migrated around the world. Describe how.

b) How would the shorelines of North America have looked different 11,700 years ago.

Research

4. Learn more about the lives of early humans and how they would have been affected by climate. Learn about how human societies evolved from hunting and gathering, to agriculture and building, to the formation of cities and modern rechnology. Use the library or Internet resources for help.

Choose a befood in early human history. Create a diorama showing a typical



setting for your period. Use clay or other materials to model humans doing

everyday activities that they would need to do for survival. Include the type of

shelter humans would have used to protect themselves from bad weather in

your time period. Share your model with the class. Explain how the humans in

your time period would have been affected by global changes in climate.



Observe a melting ice sheet

You will need the following materials for this activity:

- A freezer
- A shallow pan
- Water
- Towels
- A large sheet of thick plastic (you may also use a tarp, an oil cloth, or a laminated tablecloth).
- 1. First, create a small ice sheet. Fill a shallow pa water. Place it in the freezer
- 2. When your ice sheet is frozen, take it out of the freezer. Place the pan of ice on a counter for several minutes. Overturn the pan to release the ice sheet.
- 3. Prepare a surface to observe your loe sheet as it melts. Cover a desk or table with towels. Bunch up the towels in one area to model a sloped landscape with a hill. Cover the towels with a sheet of thick plastic. Place the ice sheet on top of this sheet.
- 4. Observe your ice sheet as it melts. Make periodic observations during the time it takes for the ice to melt completely. Answer the following questions:
 - What part of the ice sheet began to melt first?
 - Where did the water from the melting ice go?
 - Did the ice sheet begin to move at any point in the melting?
 - During what time period did the melting seem to go fastest?

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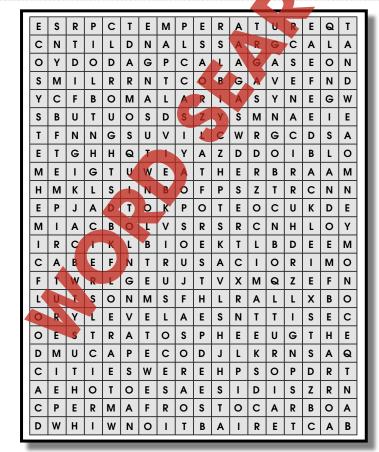
After You Read

Word Search

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

bacteria grassland economy hurricanes cape cod ecosystem cities feedback ice climate flood long island deposit forest malaria desert fungi melt mosquito disease gas drought glaciers 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.



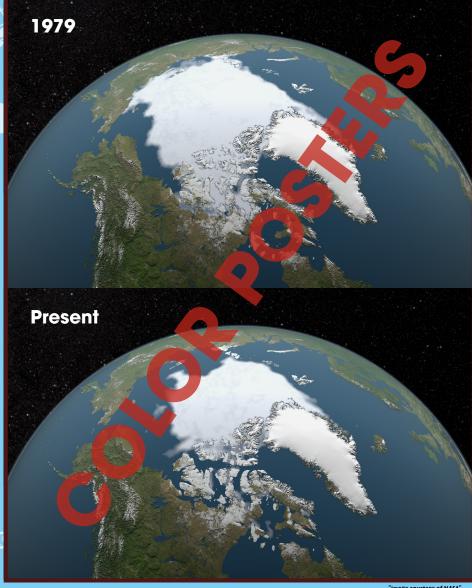
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Arctic Ice Cap Reduction



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After You	Read 🔷
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NAME: _

Climate and Human Civilization

3_	Answer	each	question	with	a	complete	sentence.
v.	HII3WEI	EUCII	Quesiloii	441111	u	COMPLETE	Sellielice.

a)	Changes in global climate has affected how early humans migrated around the world. Describe how.
b)	How would the shorelines of North America have looked different 11,700 years ago?

Research

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3.

a) Answers will vary, but may include: Causing humans to migrate to new lands.

b) Answers should

describe how the shorelines would be

are now.

ther out towards

cean than they

Across:

- 1. fossils
- 3. permafrost
- 6. glacier
- 7. forest
- 9. desert
- 13. satellites
- 14. migrate

Down:

- 2. infrastructure
- 4. economy
- **5.** levee
- 8. sea level
- 10. ecosystem
- 11. climate
- 12. tundra

ANSWER KEY







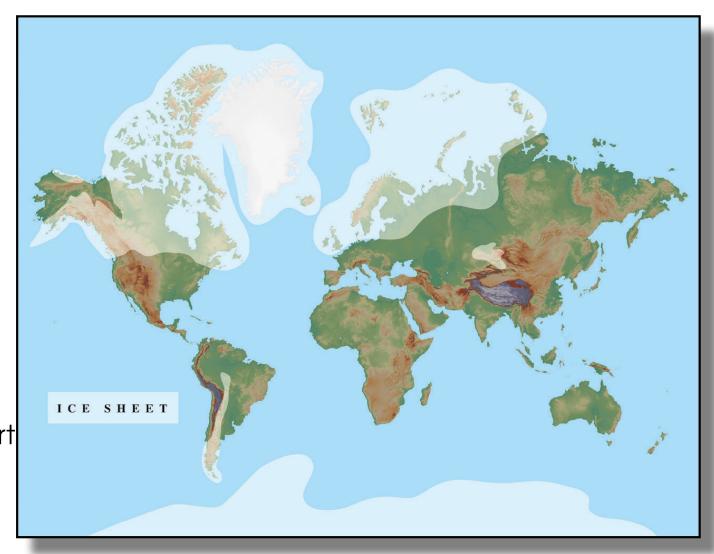


NAME:

Climate and Human Civilization

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Arctic Ice Cap Reduction



