

Name: _____

Part I: Causes and Effects of Global Climate Change

Instructions: Use information from your reading to fill in the spaces below. In the bottom half of the sheet, fill in each shape with at least two examples of how climate change affects each topic listed.

Causes

Climate Change
 Define climate change:

Greenhouse Gases
 What are they?

What effect do they have on the atmosphere?

What does CO₂ stand for?

Fossil Fuels
 What are the three main fossil fuels?

-
-
-

How were fossil fuels formed?

Deforestation
 Do trees absorb or emit CO₂?

What effect does deforestation have on levels of CO₂ in the atmosphere?

Effects

Extreme Weather Events

Species Migration

Conflict & Security

Oceans

Health

Food & Agriculture

Effects of Climate Change Graphic Organizer

Instructions: As you listen to your classmates' presentations, complete the chart below. Be sure to include at least two ways climate change will affect each organism as well as at least two reasons why those effects matter to people.

Organism name	How might climate change affect this organism?	Why does this matter for people?
Sugar Maple		
Honey Bee		
Lobster		
Cod		
Corn		
Mangroves		
Salmon		

Part II: Responses to Climate Change

Instructions: Use information from your reading to fill in the spaces below. In the bottom half of the sheet, fill in each box with at least two examples.

Vulnerability

What does it mean to be vulnerable to something?

People in the world's forty eight-poorest countries are ____ times as likely to die from climate related disasters as people in wealthier countries.

Responsibility

What are three ways of determining responsibility for climate change?

-
-
-

People in the world's forty-eight poorest countries have emitted only ____ percent of total greenhouse gas emissions.

Mitigation

What is the goal of climate change mitigation strategies?

Adaptation

What is the goal of climate change adaptation strategies?

	Examples of mitigation	Examples of adaptation
Local level		
National level		
International level		

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Carbon Tax Graphic Organizer

Instructions: Fill in the graphic organizer about each of the editorials. In addition to recording each article’s author, publication date, and where it was originally published, include whether each source claims carbon taxes are a good idea, a summary of each article’s main argument, and a piece of evidence used by each writer in support of his or her argument.

Source	Are carbon taxes a good idea?	Main argument	Evidence used
Source A Author: _____ Date: _____ Publication: _____			
Source B Author: _____ Date: _____ Publication: _____			
Source C Author: _____ Date: _____ Publication: _____			
Source D Author: _____ Date: _____ Publication: _____			
Source E Author: _____ Date: _____ Publication: _____			

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Part III: Case Studies

Instructions: Fill in the boxes below on the case studies. In each box, include at least two specific examples. In the far right column, also mark mitigation efforts with an “(M)” and adaptation efforts with an “(A).”

	How is this place experiencing climate change?	How is this place responding to climate change?
California, United States		
China		
Colombia		
Freiburg, Germany		
New Orleans, Louisiana, United States		
Haiti		
Nigeria		
Bangladesh		

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Options: Graphic Organizer

	According to this option, what is "justice"?	Who does this option think should face mandatory emissions restrictions?	How does this option think adaptation should be paid for?	According to this option, are international agreements an effective way to deal with climate change?	What are this option's views about economic development?
Option 1: Past Emitters Must Pay					
Option 2: Responsibility Must be Shared by All					
Option 3: Economic Growth and Development Must Come First					