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.

Climate Change

Define climate change:

Greenhouse Gases

What are they?

What effect do they have on the atmosphere?

What does CO, stand for?

Fossil Fuels

What are the three main fossil fuels?

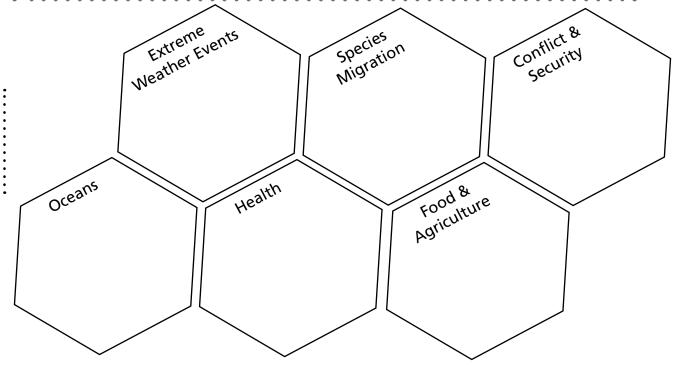
Causes

How were fossil fuels formed?

Deforestation

Do trees absorb or emit CO₂?

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



Name:_			

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		

Name:

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		

Name:

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:			

name.

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		

Options: Graphic Organizer

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