### **Introduction to Global Warming**

ad i	the following text and answer the questions:
	I warming is a critical issue that affects our planet and its ecosystems. It is essential to understanduses and consequences of global warming to develop strategies for mitigation and adaptation.
1.	What is global warming, and what are its main causes?
2.	How does global warming affect the environment and human societies?
3.	What is the role of human activities in contributing to global warming?

## The Carbon Cycle and its Impact on the Environment

plete the following	ng activities:				
. Draw a diagran	n of the carbon cyc	cle and label it	s different com	ponents.	
. Research and v	vrite a short essay	on the impac	t of human acti	vities on the carb	on cycle.

# The Great Barrier Reef: A Vulnerable Ecosystem

-	e Great Barrier Reef
wer the following que	estions:
1. What is the import	ance of the Great Barrier Reef, and why is it vulnerable to global warming?
2 How do human act	tivities contribute to the degradation of the Great Barrier Reef?
E. Frow do Harrian do	
3. What can be done	to protect and conserve the Great Barrier Reef?

# Rising Sea Levels and Geological Changes

mplete tl	e following activities:				
1. Resea	rch and create a graph	showing the rise	in sea levels over	the past century.	
0 \\/-:+-					
2. write	a short essay on the im	pact of geologic	ar changes on nur	nan societies and t	ne environment

# **Mitigation and Adaptation Strategies**

duc	ing Carbon Emiss	ions					
swei	the following quest	ions:					
1. W	/hat are some ways	to reduce car	bon emissio	ons and mit	igate the e	ffects of glol	oal warming?
	ow can communition ow can communition		impacts of	f global war	ming, such	as rising se	a levels and
-							
3. W	/hat is the role of te	chnology in su	ipporting m	itigation an	d adaptatio	on efforts?	
-							
L_							

## **Activities and Questions**

esiç	gn a Sustainable Community
отр	plete the following activities:
	Design a sustainable community that incorporates renewable energy sources, energy-efficient technologies, and sustainable land use practices.
	Research and write a case study on a community that has successfully adapted to the impacts of global warming.

## **Case Studies and Examples**

Case Study 1: The Great Barrier Reef	
Read the following case study and answer the questions:	
The Great Barrier Reef is one of the most biologically diverse ecosystems on the plan to the effects of global warming.	et, but it is vulnerable
What can be learned from this case study, and how can it inform our understand warming?  What can be learned from this case study, and how can it inform our understand warming?	ling of global
2. How can we apply the lessons from this case study to our own communities an	d environments?

#### Conclusion

Conclusion
Read the following text and answer the questions:
In conclusion, global warming is a critical issue that affects our planet and its ecosystems. It is essential to understand the causes and consequences of global warming to develop strategies for mitigation and adaptation.
1. What are the main causes and consequences of global warming?
2. What can be done to reduce carbon emissions and mitigate the effects of global warming?

### Glossary

Glossary	
Define the following terms:	
1. Global warming:	
2. Carbon cycle:	
3. Greenhouse gases:	
4. Mitigation:	
5. Adaptation:	

#### **Assessment and Evaluation**

Complete a quiz on the causes and consequences of global warming.		p	sessment:		
	ed and how you can apply it to your own life.	. Complete a quiz on	the causes and consequen	ces of global warming.	
	ed and how you can apply it to your own life.				
	ed and how you can apply it to your own life.				
	ed and how you can apply it to your own life.				
	ed and how you can apply it to your own life.	İ			
Vrite a reflective essay on what you have learned and how you can apply it to your own		. Write a reflective es	say on what you have learn	ed and how you can apply it to you	own life.