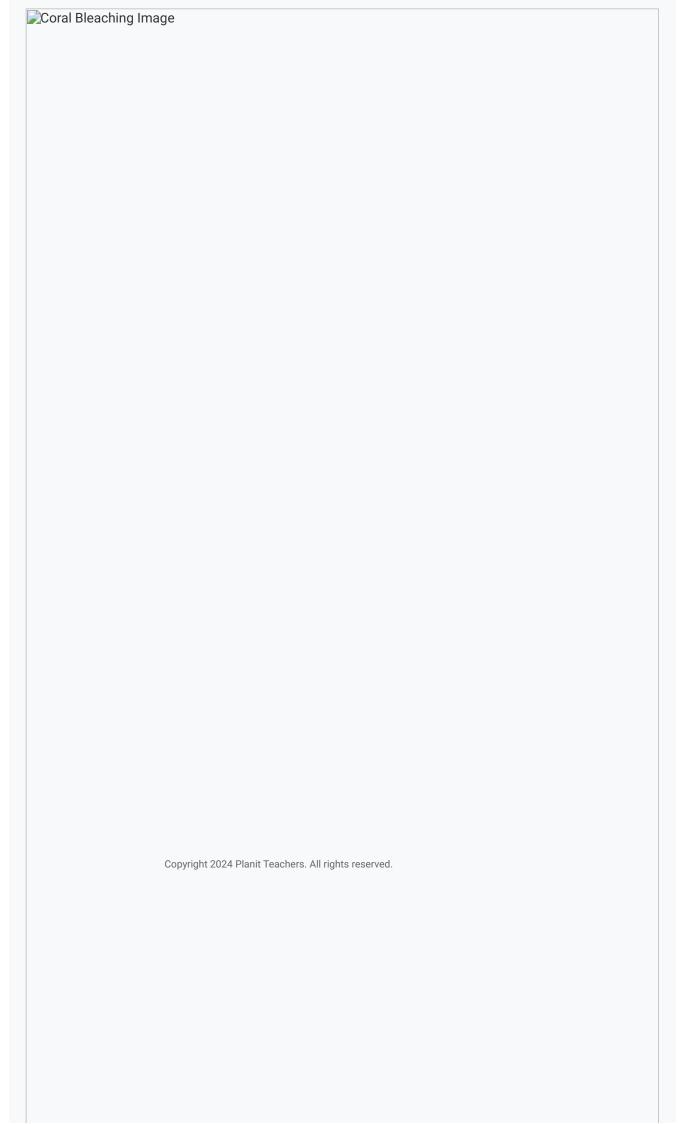
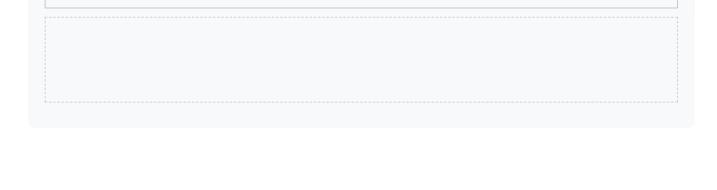
Introduction to Coral Bleaching
Read the following definition and explanation of coral bleaching:
Coral bleaching occurs when corals expel their algal symbionts and turn white, often due to stress from high water temperatures. This can be caused by a variety of factors, including climate change, pollution, and overfishing.
Why is it Important to Understand Coral Bleaching?
Consider the following points:
 Coral reefs support a vast array of marine life and provide crucial ecosystem services, including shoreline protection and tourism revenue. Coral bleaching can have significant economic and social impacts on communities that depend on coral reefs.

Visual Aid: Coral Bleaching

Examine the following image of a healthy coral reef and a bleached coral reef:





Causes of Coral Bleaching
Complete the following multiple-choice question:
What is the primary cause of coral bleaching?
 A) Pollution B) Overfishing C) Rising sea temperatures D) Coastal development
Short Answer Question: Climate Change and Coral Bleaching
Describe how climate change contributes to coral bleaching:
Graphic Organizer: Causes of Coral Bleaching

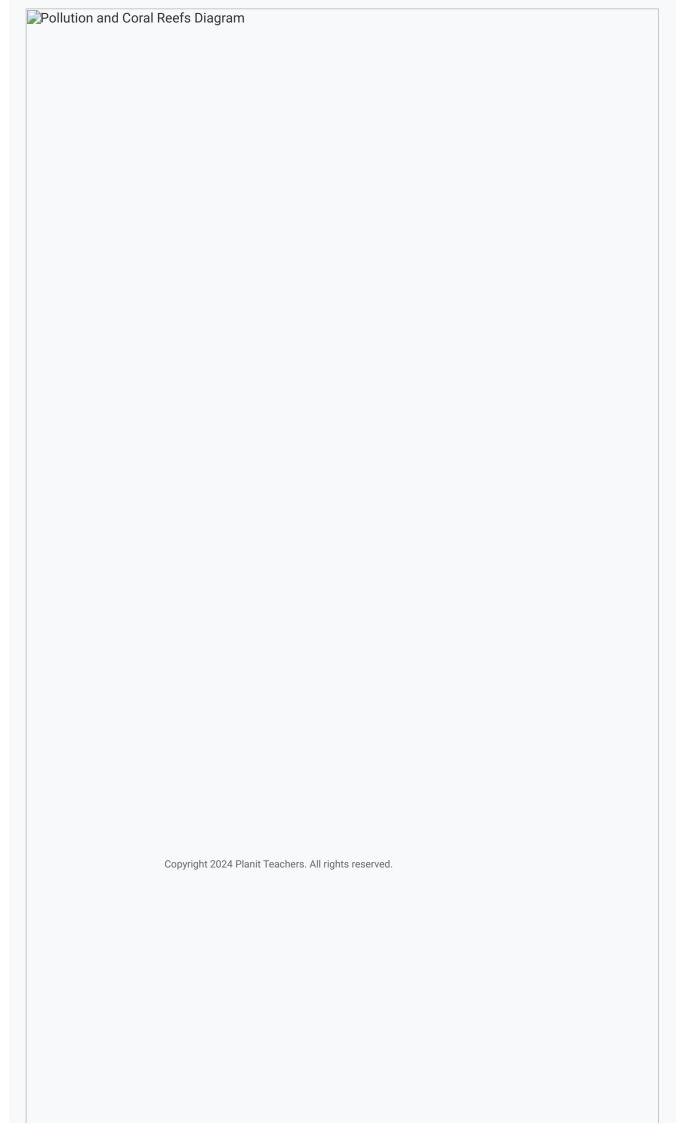
Complete the following graphic organizer:

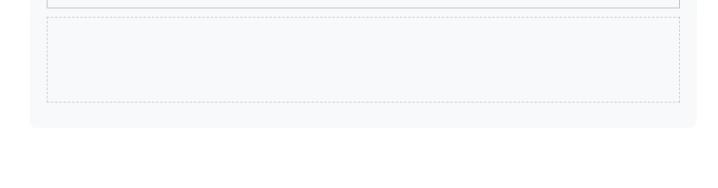
Cause	Description
Climate Change	
Pollution	
Overfishing	

Effects of Pollution	n on Coral Reefs			
Complete the follow	ing true or false questio	on:		
Pollution from land-	based activities can ha	arm coral reefs.		
Snort Answer Que	estion: Pollution and	Coral Reets		
Explain how pollutio	n affects coral reefs an	d the species that	depend on them:	

Visual Aid: Pollution and Coral Reefs

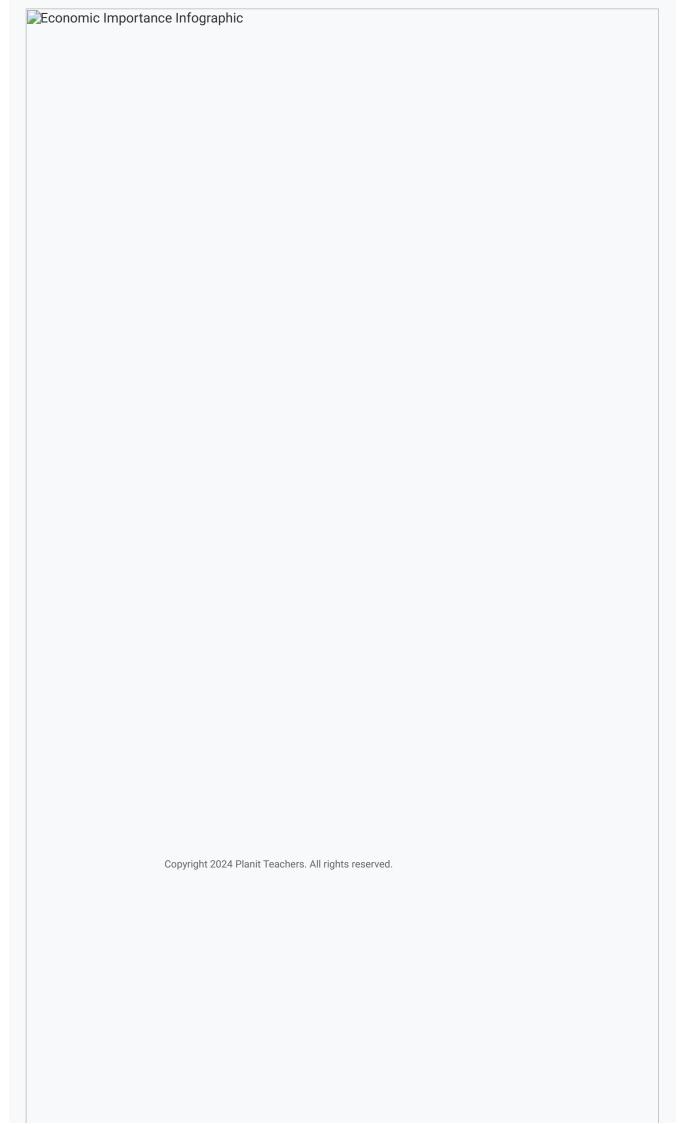
Examine the following diagram illustrating the impact of pollution on coral reefs:

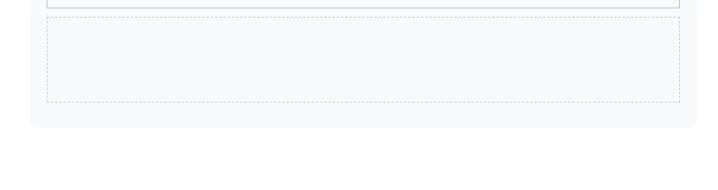




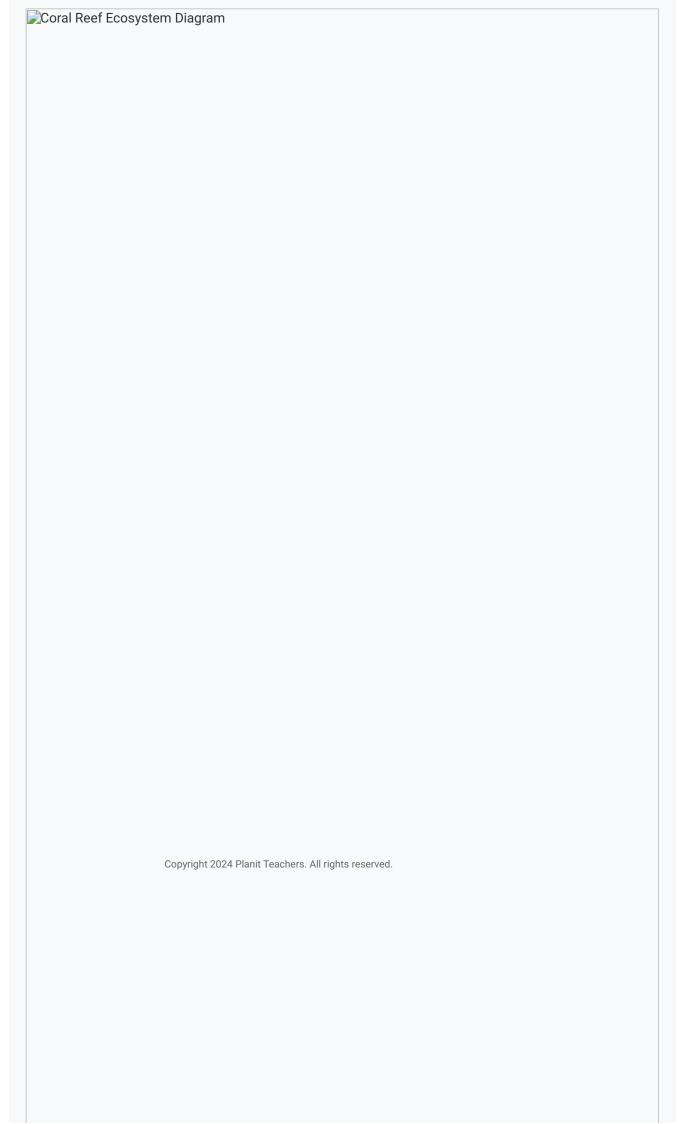
Conservation Efforts for Coral Reefs
Read the following passage about conservation efforts:
Several organizations and governments are working to protect coral reefs through marine protected areas, reef restoration, and education campaigns. Additionally, individuals can contribute by reducing their carbon footprint, supporting eco-friendly tourism, and participating in beach cleanups.
Group Discussion: Community Involvement in Conservation
Discuss the following questions in small groups:
 What role can local communities play in coral reef conservation? How can individuals make a positive impact on coral reef health?
Reflection: Personal Action Plan
Reflect on what you have learned and create a personal action plan:
What steps can you take in your daily life to help protect coral reefs and the environment?
Short Answer Question: Evaluating Conservation Efforts
Evaluate the effectiveness of current conservation efforts:
Copyright 2024 Planit Teachers. All rights reserved.

Complete the following table:	
Economic Benefit	Description
Tourism	
Fishing and Seafood	
Shoreline Protection	
Case Study: Economic Benefits of Coral Reefs	S
Read the following case study:	
A study in the Caribbean found that coral reefs gen supporting local economies and providing jobs.	erate significant revenue through tourism and fishing
supporting local economies and providing jobs.	
supporting local economies and providing jobs.	
supporting local economies and providing jobs.	
supporting local economies and providing jobs.	
Visual Aid: Economic Importance of Coral Rec	efs
	efs
Visual Aid: Economic Importance of Coral Rec	efs
Visual Aid: Economic Importance of Coral Rec	efs
Visual Aid: Economic Importance of Coral Rec	efs
Visual Aid: Economic Importance of Coral Rec	efs
Visual Aid: Economic Importance of Coral Rec	
Visual Aid: Economic Importance of Coral Rec	



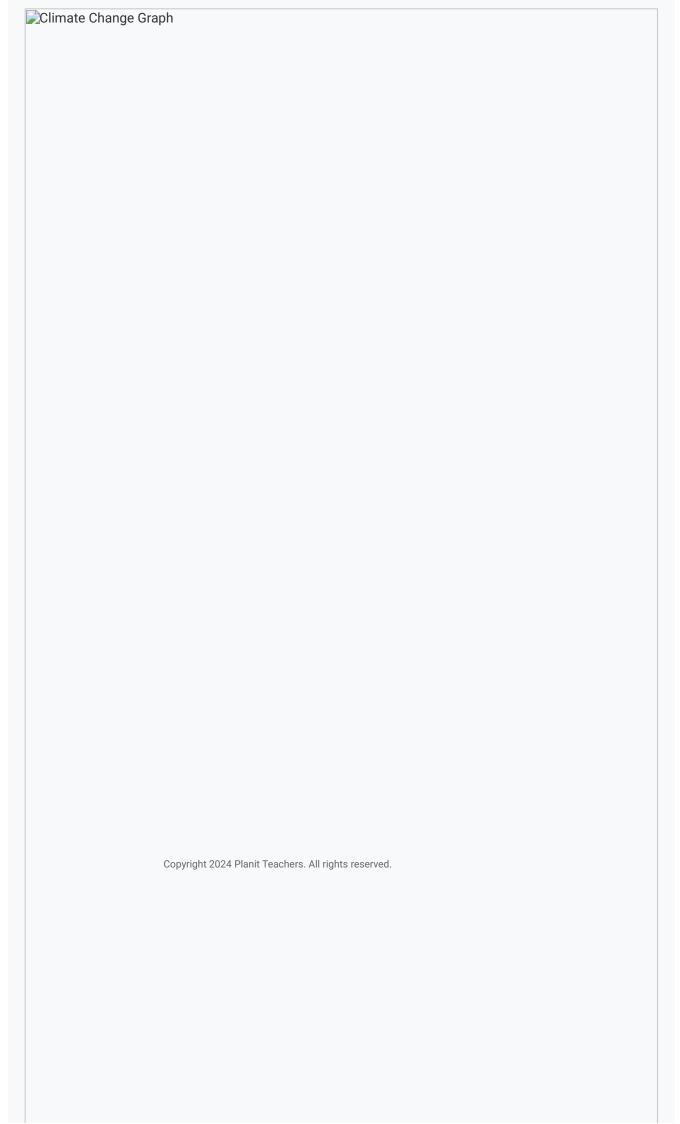


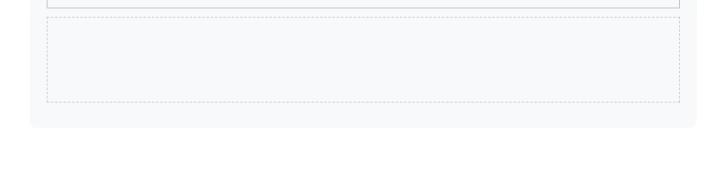
Coral Reef Ecosyste	ems and Biodiversity
Complete the following	ı diagram:
	Copyright 2024 Planit Teachers. All rights reserved.



Short Answer Question:	Coral Reef Biodiversity
Describe the importance of	coral reefs for marine biodiversity:
Group Activity: Coral Re	ef Food Web
	ef Food Web ng the relationships between species in a coral reef ecosystem:
Create a food web illustratii	ng the relationships between species in a coral reef ecosystem:
Create a food web illustratii	
Create a food web illustration	ng the relationships between species in a coral reef ecosystem:
Create a food web illustration	ng the relationships between species in a coral reef ecosystem:

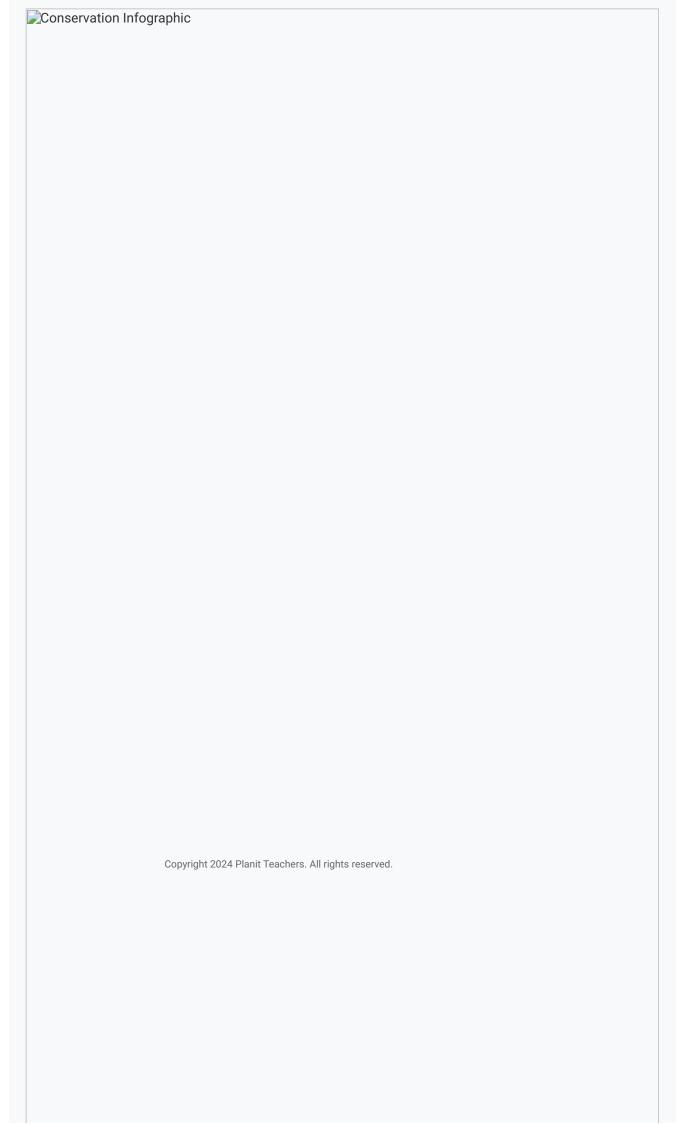
Climate Change and Coral Reefs
Read the following passage about climate change and coral reefs:
Rising sea temperatures and ocean acidification due to climate change pose significant threats to coral reefs, exacerbating coral bleaching and reducing coral growth.
Case Study: Climate Change Impacts on Coral Reefs
Read the following case study:
A study in the Great Barrier Reef found that mass coral bleaching events have increased in frequency and severity due to climate change, highlighting the need for urgent action to reduce greenhouse gas emissions.
Visual Aid: Climate Change and Coral Reefs
Examine the following graph:

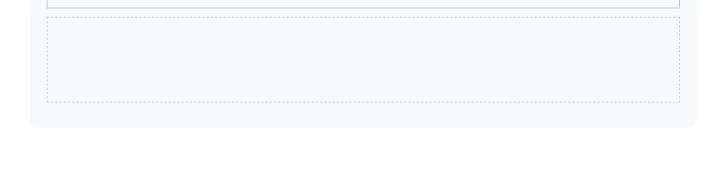




Solutions for Coral Reef Conservation
Brainstorm and list potential solutions for coral reef conservation:
Group Discussion: Community-Based Conservation
Discuss the following questions in small groups:
 What role can local communities play in coral reef conservation? How can community-based conservation efforts be effective?
Reflection: Personal Commitment to Coral Reef Conservation
Reflect on what you have learned and make a personal commitment to coral reef conservation:
Short Answer Question: Evaluating Conservation Strategies
Evaluate the effectiveness of different conservation strategies for coral reefs:

Complete the following table:	
Conservation Strategy	Description
Marine Protected Areas	
Reef Restoration	
Education and Outreach	
Case Study: Successful Coral Reef Conservation	
Read the following case study:	
A company of the first in the Continue of the manufacture of	1 (1) 1 1: 1: 1:
A conservation effort in the Caribbean successfully restored a protected areas, reef restoration, and community engagemen	
protected areas, reef restoration, and community engagemen	
protected areas, reef restoration, and community engagemen	
protected areas, reef restoration, and community engagemen	
protected areas, reef restoration, and community engagemen	
protected areas, reef restoration, and community engagemen	
protected areas, reef restoration, and community engagemen	

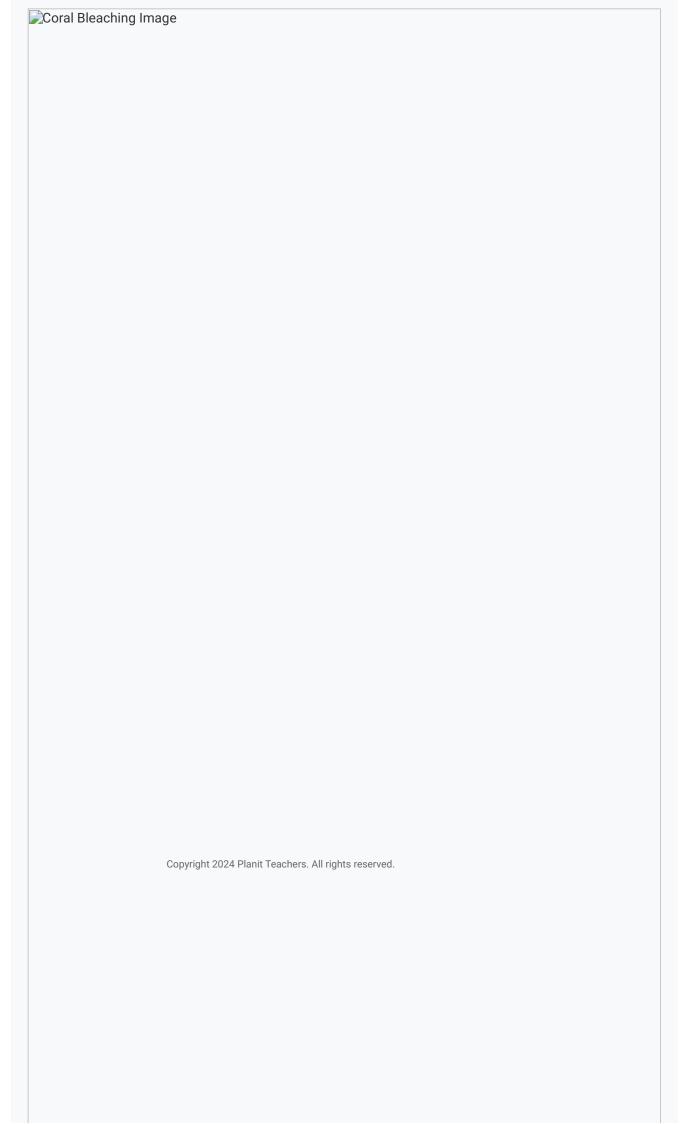


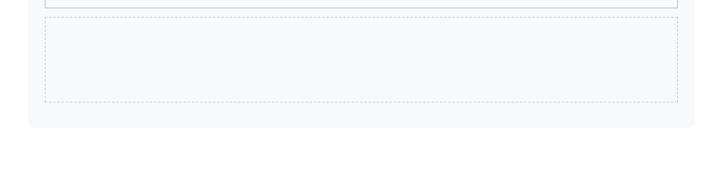


Introduction to Coral Bleaching
Read the following definition and explanation of coral bleaching:
Coral bleaching occurs when corals expel their algal symbionts and turn white, often due to stress from high water temperatures. This can be caused by a variety of factors, including climate change, pollution, and overfishing.
Why is it Important to Understand Coral Bleaching?
Consider the following points:
 Coral reefs support a vast array of marine life and provide crucial ecosystem services, including shoreline protection and tourism revenue. Coral bleaching can have significant economic and social impacts on communities that depend on coral reefs.

Visual Aid: Coral Bleaching

Examine the following image of a healthy coral reef and a bleached coral reef:





Causes of Coral Bleaching
Complete the following multiple-choice question:
What is the primary cause of coral bleaching?
 A) Pollution B) Overfishing C) Rising sea temperatures D) Coastal development
Short Answer Question: Climate Change and Coral Bleaching
Describe how climate change contributes to coral bleaching:
Graphic Organizer: Causes of Coral Bleaching
Complete the following graphic organizer:

Cause	Description
Climate Change	
Pollution	
Overfishing	

omplete the fo	llowing true or false o	question:			
Pollution from I	and-based activities	can harm coral r	eefs.		
hort Answer	Question: Pollutio	n and Coral Re	efs		
	Question: Pollutio			n them:	
	· 			n them:	
	· 			n them:	

Visual Aid: Pollution and Coral Reefs

Examine the following diagram illustrating the impact of pollution on coral reefs:

