



**Student Name:** \_\_\_\_\_

**Class:** \_\_\_\_\_

**Due Date:** \_\_\_\_\_

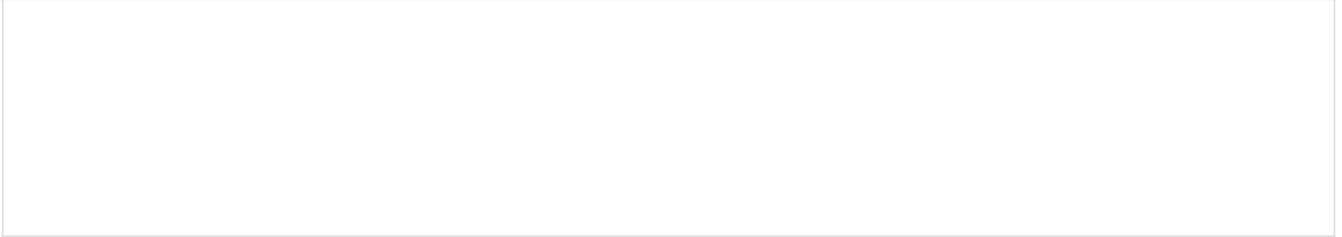
### Introduction

Welcome to our homework sheet on global warming and the Great Barrier Reef! In this sheet, we will explore the causes and effects of global warming, and how it affects the Great Barrier Reef. We will also learn about the carbon cycle and how we can reduce our carbon footprint.

## What is Global Warming?

Global warming is the increase in the Earth's temperature due to human activities. It is causing the polar ice caps to melt, sea levels to rise, and extreme weather events to occur.


Draw a picture of the Earth with a thermometer showing a rising temperature.

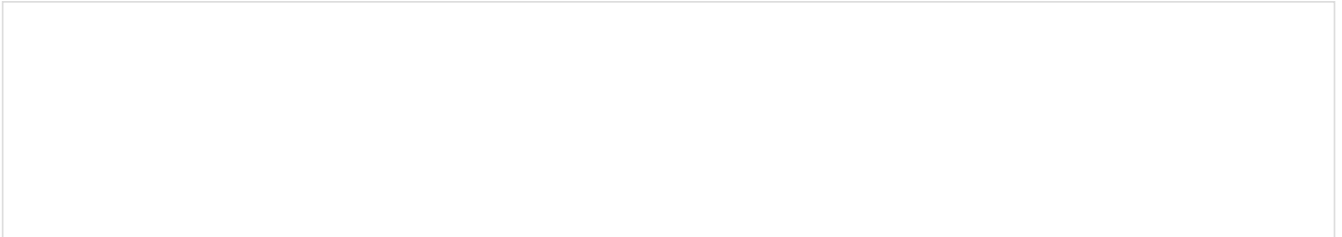
A large, empty rectangular box with a thin black border, intended for a drawing of the Earth and a thermometer.

## The Carbon Cycle

The carbon cycle is the process by which carbon is exchanged between the atmosphere, oceans, land, and living things.

Complete the diagram below to show the different stages of the carbon cycle.

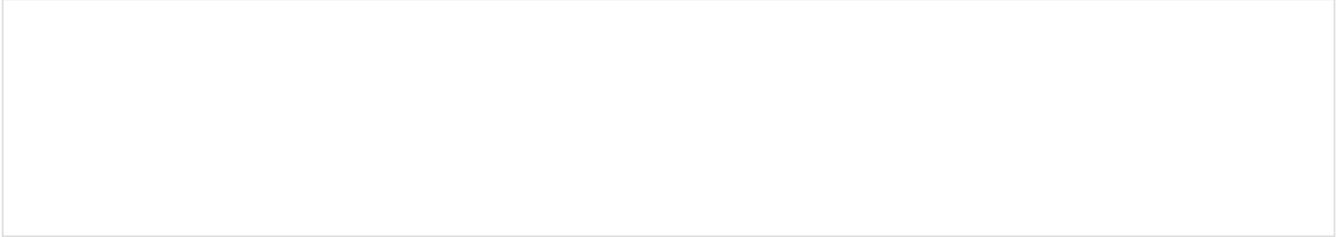
 Carbon Cycle Diagram



## The Great Barrier Reef

The Great Barrier Reef is the world's largest coral reef system, located in Australia. It is home to many different species of fish, coral, and other marine life.

Draw a picture of the Great Barrier Reef and label its different parts.



## Effects of Global Warming on the Great Barrier Reef

Global warming is causing the Great Barrier Reef to bleach and die. This is because the rising sea temperatures are causing the coral to expel the algae that live inside it, turning it white.

Write a short paragraph about how global warming is affecting the Great Barrier Reef.

## Reducing Our Carbon Footprint

We can reduce our carbon footprint by using public transport, carpooling, or driving electric or hybrid vehicles. We can also reduce our energy consumption by turning off lights and electronics when not in use.

Complete the quiz below to see how you can reduce your carbon footprint.

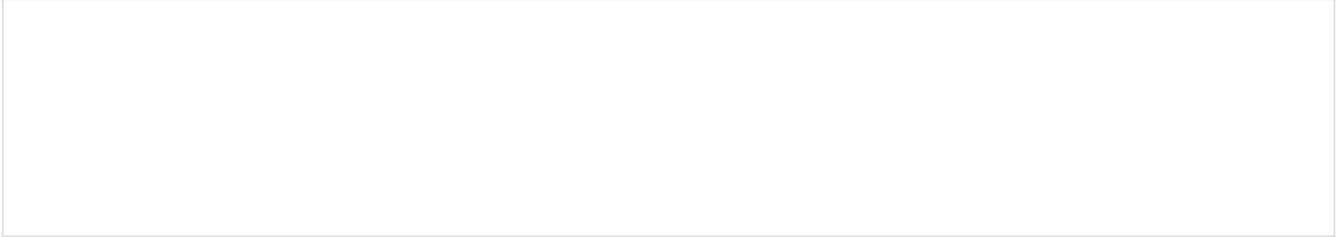
1. What is one way to reduce your carbon footprint?

2. What is another way to reduce your carbon footprint?

## Geological Changes

Geological changes, such as the formation of coral reefs and sea cliffs, are shaped by a combination of natural and human-induced factors.

Draw a picture of a coral reef or sea cliff and label its different parts.



## Rising Sea Levels

Rising sea levels are causing coastal erosion and flooding. This is because the melting of the polar ice caps is causing the sea level to rise.

Write a short paragraph about how rising sea levels are affecting coastal communities.



## Conclusion

In conclusion, global warming is a serious issue that affects us all. We can reduce our carbon footprint by making small changes to our daily lives. Remember, every small action counts!

## Activity

Design a poster about the Great Barrier Reef and the effects of global warming on it. Include pictures, diagrams, and fun facts about the reef and its inhabitants.

