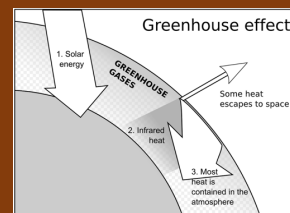
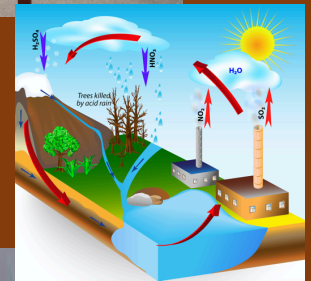


Biomass, Fossil Fuels, and Acid Precipitation

- What is Biomass?
- Biomass → Fossil Fuels
- Burning Fossil Fuels and the Greenhouse Effect
- Fuel from Biomass
- Acid Precipitation and pH



Preview File

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Biomass

- _____
- _____
- This material is usually recycled (broken down and released) allowing the material to be reused



Biomass → Fossil Fuels

- Sometimes, biomass gets trapped in places without oxygen
 - Mostly plant material
 - Oxygen is needed to break down organic (living or once living) matter

- _____



Burning Fossil Fuels

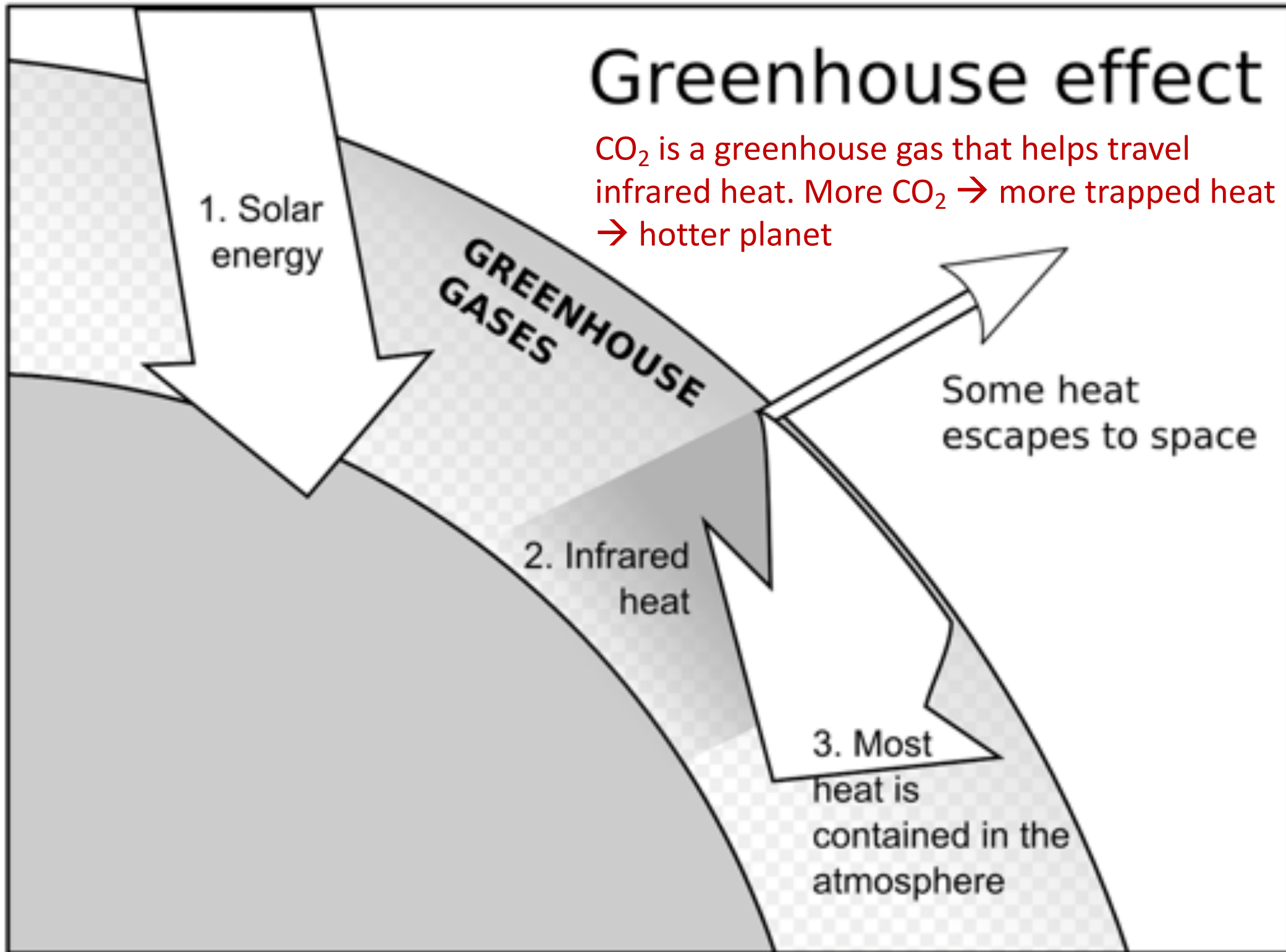
- _____
- In the process, oxygen is used to produce energy and carbon dioxide (CO_2)



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Greenhouse effect

CO₂ is a greenhouse gas that helps travel infrared heat. More CO₂ → more trapped heat → hotter planet



Fuel From Biomass Waste

There are two ways to get energy from biomass

1. _____
2. Biomass is placed into a tank alongside certain bacteria. The bacteria break down the sugar found in the biomass waste in a process called fermentation. A product of fermentation is a gas called methane (CH_4). _____

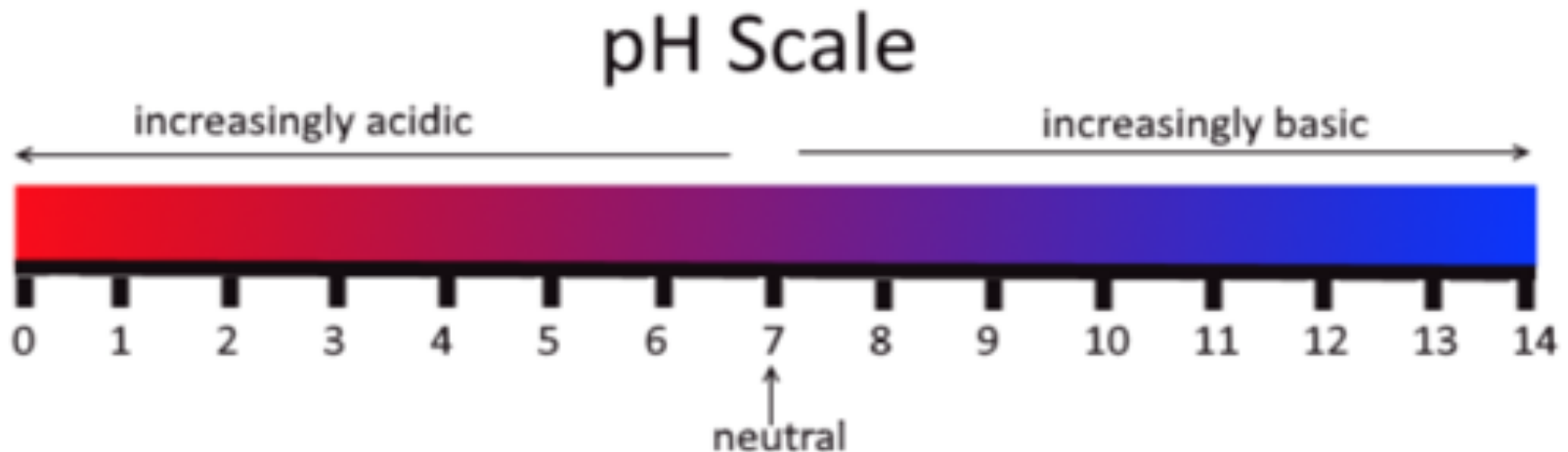
Fuel From Biomass Waste

- ---
- According to the U.S. Forest Service, “Wood is an abundant, sustainable, homegrown cellulosic resource that can significantly contribute to meeting 30 percent of U.S. petroleum consumption from biomass sources by 2030 and help create a more stable energy future, improve environmental quality, and increase economic opportunities.”

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pH

- Is a measure of how acidic a substance is
 - Acid examples → Sulfuric acid, citric acid
- It is measured on a scale (pH scale) from 0-14



Effects of Acid Precipitation

- _____
- Can cause numerous problems in aquatic ecosystems - killing fish, amphibians and other organisms due to a decrease in pH
- Destroy stonework



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Reducing Acid Precipitation

We can reduce acid rain by:

- _____
- _____
- Improving standards for factories and motor-vehicles emissions

