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Contents

Global Warming: Causes

- Earth's Atmosphere
- Global Warming
- Greenhouse Gases: Water Vapor
- Greenhouse Gases: Carbon Dioxide
- Greenhouse Gases: Methane
- Greenhouse Gases: Ozone
- Greenhouse Gases: Nitrous Oxide
- Greenhouse Gases: Synthetic Gases
- Crossword
- Word Search

Before You Read



Before You Read

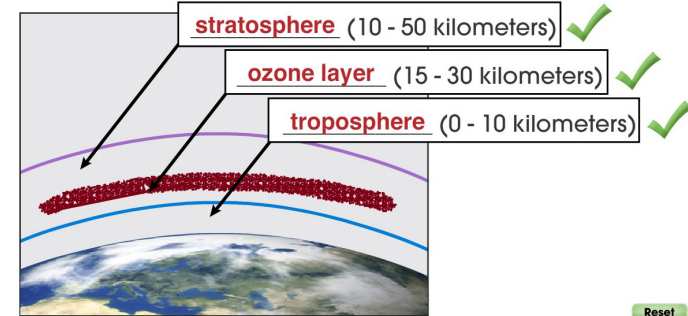
Global Warming: Causes Greenhouse Gases: Ozone

1 2

Earth's Atmospheric Layers

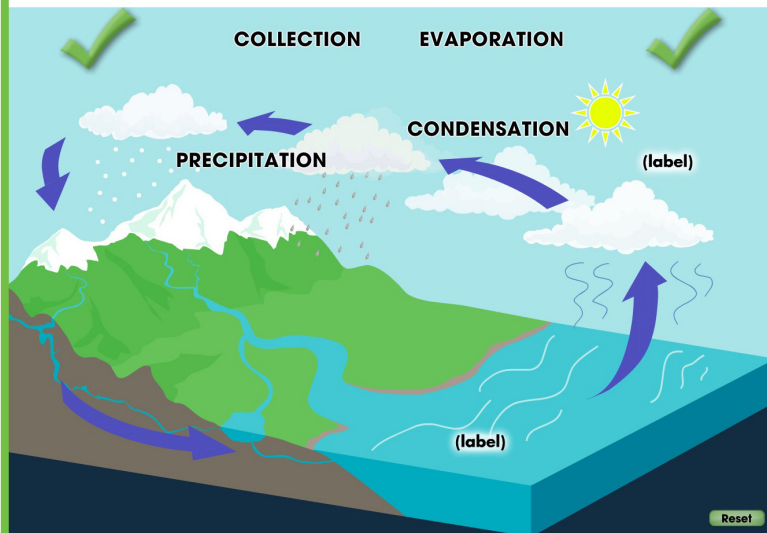
Label the diagram below by dragging the words from the list.

WELL DONE!



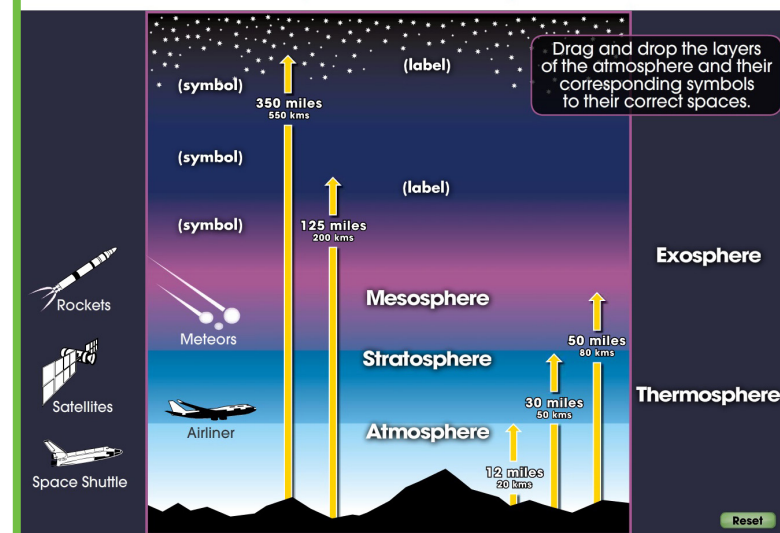
Interactive Activity

The Water Cycle




Interactive Activity

The Layers of the Atmosphere




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- Global Warming: Effects
 - Earth's Climate
 - Climate and Human Civilizations
 - Melting Ice Sheets
 - Sea Level Changes
 - Extreme Weather
 - Climate and Human Health
 - Climate and the Economy
 - Climate and Ecosystems
 - Crossword
 - Word Search

After You Read



After You Read

Global Warming: Effects
Climate and Human Health

1 2 3 4

Number the smoggiest cities in the United States in order from 1 to 5?


3 4 5

- a) Salt Lake City, UT
- b) Birmingham, AL
- 2 ✓ c) Pittsburgh, PA
- d) Fresno, CA
- 1 ✓ e) Los Angeles, CA

Reset

Interactive Activity

Climate and Human Migration Timeline






88,000 BC
72,000 BC
43,000 BC
17,000 BC
10,500 BC
8,000 BC
6,000 BC
1800 AD
Present

10,500 BC: The global climate continues to improve, allowing the coastal route into North America to re-open. Groups move along the Bering Land Bridge into North America and continue migrating to South America.

Reset

Memory Match Game

The Ecosystem Memory Game

Boreal Forest	Coral Reef	Desert	Polar Ice Cap	Savanna
Chaparral	Deciduous Forest	Grassland	Rainforest	Tundra
?	?	?	?	?
?	?		?	
?	?	Rainforest	Boreal Forest	?
Coral Reef	?	?	?	

Mix Reset ?

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- 📖 Global Warming: Reduction
 - How Warm Will Earth Get?
 - Alternative Fuels
 - Transportation
 - Industry
 - Urban Planning
 - Green Buildings
 - The Masdar Initiative
 - Lowering Your Greenhouse Gas Emissions
 - Crossword
 - Word Search

Reading Passage



Reading Passage

Global Warming: Reduction Urban Planning

The ways that people live and move around can have a big effect on greenhouse gas emissions. Where people live and work and the ways people travel in and around cities is the subject of **urban planning**. For example, city planners decide whether to allow large **skyrise** apartment buildings or new single-family homes. They plan how and where public transportation and roads will connect people's homes and businesses.



continue reading →

Interactive Activity

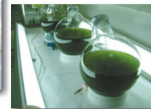
Match the Alternative Sources of Energy to their Images

Biofuel



Solar Cells

Hydrogen Fuel Cells



(label)

Wind Turbines

Hydroelectric Dam

(label)

(label)

Wind Turbines change wind energy into electricity. They are found within fields, where they power towns and cities.

Reset

Crossword Puzzle

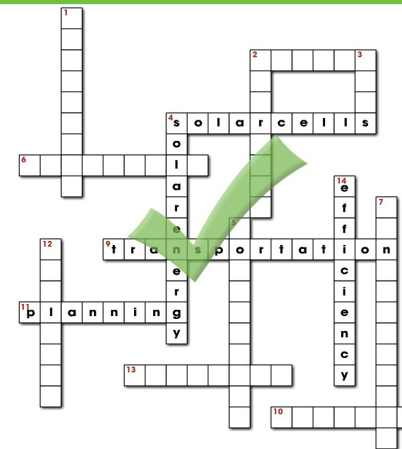
Crossword

Reset



Word List

- biofuel
- hybrid
- renewable
- turbines



Across / Down

2. A vehicle that uses energy from braking in order to drive
4. Objects that change energy from sunlight into electricity (2 words)
6. Most alternative fuels are also _____