

APES- Carbon Cycle and the Greenhouse Effect

go to: http://www.esrl.noaa.gov/gmd/education/carbon_toolkit/basics.html

Name: _____

Influential Greenhouse Gases: For each of the following, list **WHAT** they are, **WHERE** they are found and **HOW** they affect climate

Carbon Dioxide (CO₂):

Methane (CH₄):

Nitrous Oxide (N₂O):

Sulfur Hexafluoride (SF₆):

Draw a diagram and label to EXPLAIN the greenhouse effect:

Explain how the Carbon Cycle is involved in global climate change:

What are Carbon SOURCES and SINKS?

How does deforestation increase the amount of CO₂ in the atmosphere? Explain.

How do the oceans absorb excess CO₂ from the atmosphere and how does this affect the oceans?

Explain how the *industrial revolution* has increased the amount of carbon dioxide in the atmosphere.

According to the graph, which country is the biggest contributor to global carbon emissions worldwide?