

CLIMATE

Earth Science

Name: _____

Date: _____ Hr: _____

CLIMATE REVIEW:

For the climate test you will need to be able to:

1. Describe the cause of the natural greenhouse effect.

Explain why the natural greenhouse effect is a necessary part of life on Earth.

2. Describe how the greenhouse effect can be intensified.
3. Compare the following characteristics of greenhouse gases (CO_2 , CH_4 , N_2O , H_2O):
 - a. *Concentration (ppm, ppb)*
 - b. *Time (yrs) in Atmosphere*
 - c. *Warming potential (compared to CO_2)*
4. Describe how each of the proxies helps us learn about paleoclimate:
 - a. *Tree Rings*
 - b. *Ice Cores*
 - c. *Pollen Spores*
 - d. *Fossils*
5. Describe specific activities that add **carbon dioxide** to the atmosphere.
6. Describe specific activities that add **methane** to the atmosphere.
7. Describe specific activities that add **nitrous oxide** to the atmosphere.

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8.05 OTHER PALEOCLIMATE PROXIES

Summarize (summarize how each piece of proxy evidence can help reconstruct paleoclimate):

<i>Tree Rings</i>	
<i>Pollen Spores</i>	
<i>Fossils</i>	

8.06 Modern Greenhouse Effect

- (Pie charts), ID the sector that emits the highest % of greenhouse gases. _____
- (Pie Charts) Decide which greenhouse gas(es) is/are emitted from each human activity:
 - 🌍 charging an iPhone _____
 - 🌍 raising cows/chickens _____
 - 🌍 purifying drinking water _____
 - 🌍 making plastic water bottles _____
 - 🌍 driving a car to school _____
 - 🌍 drilling for oil/gas _____
- Explain the correlation between increased greenhouse gases and a warmer atmosphere.
- Define the following parts of Earth's system:
 - ATMOSPHERE
 - HYDROSPHERE
 - GEOSPHERE
 - BIOSPHERE
- Describe a warmer atmosphere changes other parts of Earth's system.